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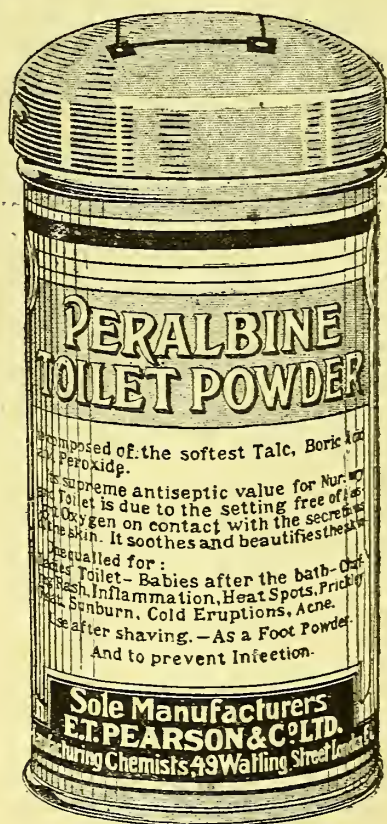
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INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in the front of literary pages, the Advertisements following the literary pages are numbered in Roman numerals (1 to xxxv).

ADMIRALTY MARSHAL, Prize Court Sale.....	8	GARTHWAITE, W., Dentistry.....	xxx	PREMIER DRUG CO., Ltd., Malt Extract.....	xxi
ABEYATON, L., Sparklets.....	18	GERAUDEL, A., Pastilles.....	xli	RAIMES & CO., Drugs.....	xxv
ALCOCK MANUFACTURING CO., Plasters, &c.....	xxvii	GIBBINS R. & CO., Tablets.....	Col. Supp.	RAVORELL, J. E., Patent Agent.....	xx
ALLEN & HANBURY, Ltd., Packed Goods.....	Cover	GIGNOUX FRERES & CO., Male Fern Extract.....	vi	RENDELL, W. J., Essences.....	xxvi
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals.....	10	GOWER, JOHN, Books (Secondhand, &c.).....	Col. Supp.	REYNOLDS & BRANSON, Ltd., Chemicals.....	Text
AMERICAN COMMERCE CO., Ltd., Chemicals.....	xi	GRAESSER, R., Ltd., Carbolic Acid, &c.....	xvi	RIGAUD-CHAPELLE, French Proprietaries, &c.....	15
AMSTERDAM QUININE WORKS, Quinine.....	xxiii	GREEFF, R. W., & CO., Chemicals (Fine & Technical), &c.....	8, 9	RIGOLLOT, Mustard Leaves.....	24
ANGLO-FRENCH DRUG CO., Ltd., French Props.....	ix	HAMPSHIRE, F. W., & CO., Ltd., Proprietary.....	18	ROBERTS, Ltd., Toilet Specialties.....	xv
ARNOTT, JAMES, & SONS, Ltd., Petroleum Jellies.....	16	HARKER, C. R., STAGG & MORGAN, Ltd.....	xxxi	ROBERTS & CO., Continental Proprietaries.....	xiv
BAILEY, ROBERT, & SON, Surgical Dressings.....	xxvii	HARLEY, T., Rat Poison, Proprietary Salt.....	xxxi, 30	RUCH, A., & CO., Ltd., Glassware.....	xxvii
BANKER, R., & SON, Infant's Irrigative.....	xxv	HAYWOOD, J. H., Ltd., Artificial Limbs, &c.....	xxii	ROBINSON & SONS, Ltd., Carbons, Surgical Dressings.....	21
BECKER, SHILLAN & CO., Chemicals.....	vi	HENRY, T. & W., Calcined Magnesia.....	xxii	ROLLIN CHEMICAL CO., INC., Chemicals.....	v
BEEHAM, THOMAS, Pills.....	xvii	HEWLETT C. J., & SON, Ltd., Pharmaceuticals.....	22	ROSENBLATT, SAMSON, Drugs.....	xx
BERTHAM, M., & SON, Toilet Articles.....	xxiii	HIND & LUND, Ltd., Grinders, Sifters, and Mixers.....	xxxi	ROWLANDS, A., & SONS, Oils.....	19
BENGOL TRADING CO., INC., Salicylates.....	xxii	HOLLIDAY, F. B., & CO., Fine Chemicals.....	v	ROWNSON, DREW & CLYDESDALE, Ltd., Machinery.....	iv
BERRIDGE & FISH, Transfer Agents.....	Col. Supp.	HOVENDEN, R., & SONS, Ltd., Druggists' Sundries.....	xxxi	ROYAL WORCESTER PORCELAIN.....	xxix
BERG, V., & SONS, Chemicals.....	xvi	HUSKING, G. L., American Drugs, Chemicals, &c.....	xiii	RUDDOCK & CO., Chemists' Shop Fittings.....	Col. Supp.
BREWLEY & DRAPER, Ltd., Dichroic Ink.....	29	INGRAM, FREDK. F., CO., Toilet Cream.....	18	SALTSTRATES CO., Bath Salts.....	23
BISHOP, ALFRED, Ltd., Effervescent Proprietary.....	6	ISAACS, I., & CO., Medical Glassware.....	Col. Supp.	SANITAM CO., Ltd., Disinfectants.....	Text
BLITHE, W., & CO., Ltd., Epsom Salts, Zinc Sulphate.....	xi	JOB BROS., Cod Liver Oil (Newfoundland).....	29	SHADEINE CO., Hair Dyes.....	xxx
BOWLEY, S., & SON, Ltd., Parasitides.....	xiv, xxxi	JOSEPHS, PHILIP, & SONS, Ltd., Shopfittings.....	Col. Supp.	SIM, Ltd., Ampoules.....	xx
BRADFORD WOOL EXTRACTING CO., Ltd., Phenacetin.....	xxxvii	KAY BROS., Ltd., Proprietary.....	xxxi	SMITH, MAURICE, & CO., Proprietary.....	xxi
BREZET, A., & CO., Chemicals.....	xxx	KIDSTON, W. M., & CO., Gums, Petroleum Jellies.....	xxxi	SMITH & NEPHEW, T. J., Ltd., First-Aid Outfits.....	2
BRITISH DRUG HOUSES, THE, Ltd., Chemicals, Foods Cover		KIRBY, H. & T., & CO., Ltd., Pills and Tablets.....	xxiii	SMITH, T. & H., Ltd., Alkaloids, Resins & Resinoids.....	vi
BRITISH FRUIT EVAPORATOR CO., Separators.....	iv	LAMBERT, S., & CO., Drugs and Essential Oils.....	14	SOCIETEIT VOOR CHEM. IND. KATWIJK.....	xxi
BROOK, PARKER & CO., Ltd., Herbs, Specialties.....	xii	LANG, JULES, & SON, Medical & Chemical Glassware.....	xxix	SOLAZZI, Liquorice.....	xxv
BROWN & SON, Water Stills.....	xxxi	LANSHEAR, WICKSTAD & CO., Ltd., Tartaric Acid.....	xv	SOLERNOU VIUDA DE JOSE, Spanish Agencies.....	xv
BRUNNER MOND & CO., Ltd., Alkalies.....	ii	LARTE, R., Ltd., Hydrogen Peroxide.....	vii	SOLPOT BROS., Ltd., Corn Plasters, Puffs, Loofahs.....	29
BULL, D. W., Paper.....	Col. Supp.	LENNON, L., South African Agencies.....	xxviii	SPATULA PUBLISHING CO., Books.....	27
BURGE, WARREN & RIDGLEY, Ltd., India-Rubber		LENNOX FOUNDRY CO., Ltd., Chemical Plant.....	xxiii	SPENCER, ISAAC, & CO. (Aberdeen), Ltd., Cod Liver Oil.....	10
Goods, Air Cushions Anti-Rheumatic Rings.....	xxvi	LENCOL PERFUMERY CO., Perfumes, Soaps.....	12	SPRING & CO., Ltd., Honey.....	24
BURNSIDE & CO., Eucalyptus Oil.....	xx	LEVERMORE, A., & CO., Ltd., Chalk (Precipitated).....	xxx	STEAD & CO. Photographics.....	Col. Supp.
BURROUGHS, J. L., Rectified Spirit.....	Text	LEWIS, H. K., & CO., Ltd., Medical Books.....	26	STEEL, T. NORMAN, Earthenware.....	xv
BURROUGHS WELLCOME & CO., Tablet Preps.....	81	LILLY, ELL, & CO., Ipecac, Tablets.....	Cover	STERN, Ltd., Petroleum Jelly.....	20
BUSH, W. J., & CO., Ltd., Chemicals, Essences, Perfumery.....	13	LOTHOUSE & SALTHER, Ltd., Foods, Asthma Remedies.....	xxiv	STEVENSON & HOWELL, Ltd., Soluble and Fruit	1
CAMPBELL, ACHENACH & CO., Ltd., Hot Water Bottles.....	xv	LONDON CHEMICAL WORKS, Ltd., Salicylic Acid, &c.....	5	Essences Essential Oils, Synthetic Perfumes.....	25
CHATELAIN, J. L., French Medicinal Proprietary.....	vii	LORIMER, JOHN, Foods, &c.....	6	STIPENDIUM STOPPER CO., Boxes, Stoppers.....	viii
CHESTER, A. D., & CO., Ltd., Chemicals.....	xv	McGLASHAN, D., Fruit Beverage.....	22	STURGE, JOHN & E., Ltd., Precipitated Chalk.....	viii
CHRISTY, T., & CO., Toilet Articles &c.....	i, xvii, xx	MACK, J., Ledger.....	Col. Supp.	SWISS BANK CORPORATION, Banking, &c.....	xx
CLEMENT & JOHNSON, Surgical Dressings.....	xxvii	MADERO BROS. INC., Chemicals.....	iii	SYMPHIELITE CO., Cooking Stoves, &c.....	20
COLLEGE OF PRECEPTORS.....	22	MANIRE SACCHARINE CO., Ltd., Glucose.....	24	THAMES CHEMICAL CO., Ltd., Wrinkle Remover.....	xxx
CONSACO SALES CO., Photographics.....	xx	MARTIN, W., Photographics.....	Col. Supp.	THAMES PAPER CO., Ltd., Fibreboard Packing Cases.....	28
COOPER, SON & CO., Ltd., Headache Cachets.....	xxx	MATTHEWS, HAROLD E., & CO., Catarrh Mixture.....	xxi	THEW, HOOKER & GILBEY, Malted Food.....	22
CRAMPTON, J., & CO., Chemicals, Gelatines.....	xxi	MAW, S., SON & SONS, Ltd., Druggists' Sundries.....	11	THOMPSON & CAFFER, Ltd., Pharmaceutical Machinery.....	14
CUPAL, Ltd., Cod-liver Oil Emulsion, Packed Goods.....	3	MAY, ROBERTS & CO., Ltd., Extract of Malt and Cod		THORNLEY, S., Ltd., Methylated Spirit.....	14
DAILY MAIL.....	72	Liver Oil.....	Cover	TIMPSON, JOHN, & CO., Ltd., Surgical Dressings.....	xxviii
DALL, J., MNGF. CO., Collapsible Tubes.....	xxxi	MERSON, G. F., & CO., Surgical Catgut.....	xxix	TOLKOWSKY, S., Russian Crude Drugs, &c.....	viii
DAVENPORT, J. L., Ltd., Chlorodyne.....	x	MILLAR, A., & CO., Ltd., Orange Quinine Wine.....	xxii	TOMPKINS, J. I., Rubber Goods.....	xxx
DAVIS, W., Window Display Stands.....	27	MITCHELL, N. W., & SONS, Ltd., Chemists' Corks.....	xxiii	TOOMES, ARTHUR, & CO., Bottle Caps.....	8
DEVILBISS MANUFACTURING CO., Atomizers.....	16	MOND NICKEL CO., Copper Sulphate.....	iv	TOPLIS & HARDING, Auctioneers.....	Col. Supp.
DODGE & OLCOTT CO., Balsams, Essential Oils.....	14	MONSANTO CHEMICAL WORKS, Glycerophosphates.....	v	TOZANA PERFUMERY CO., Toilet Articles.....	xxv
DUDLEY & CO., Window Tickets.....	Col. Supp.	NALBOROUGH & SONS, Ltd., Sugar of Milk.....	xx	TURNER, W., & CO., Surgical Instruments.....	xxviii
DUNCAN, FLOCKHART & CO. Chloroform, Ethers.....	xiii	NICHOLSON, HUGH, & CO., Ltd., Candles.....	23	UEYAMAYEI INSECTICIDE PRODUCING CO.....	xxxi
EMPIRE PERFUMERY CO., Toilet Articles.....	12	NICHOLS CHEMICAL CO., Ltd., Precipitated Chalk.....	xiv	VAN HORN & SAWTELL, Surgical Ligatures.....	xxx
ENGLISH DRUG & CHEMICAL WORKS.....	17	NORTHERN TIN CANISTER WORKS.....	xxxi	VERNON & CO., Ltd., Surgical Dressings, Linings.....	xxix
ERHARDT, H., & CO., Ltd., Tincture.....	xxiii	NORWICH CREPE CO. (US65), Ltd., Crepe Bandages.....	xiv	VITAMOGEN, Ltd., Food Product.....	21
EVANS SONS, LESCHER, & WEBB, Ltd., Chemicals,		ODOI CHEMICAL WORKS, Dentifrices.....	xxv	VISCORE CO., Ltd., Bottle Cappings.....	8
Pharmaceuticals, Druggists' Sundries, Serums.....	19	OLDFIELD, PATTERSON & CO., Opium, Dairy Preps. Cover		WARD & GOLDSTONE, Electrical Novelties.....	26
Fairchild Bros & Foster, Digestive Products.....	32	PAGE, CHAS., & CO., Chemicals.....	xvi	WARRINGTON CHEMICAL & DRUG CO., Salicylic Acid.....	xv
FABROW & JACKSON, Ltd., Asbestos Filters.....	10	PEARSON, E. T., & CO., Ltd., Salicylic Acid.....	3	WASHINGTON CHEMICAL CO., Ltd., Magnesia & Salts.....	xxii
FAULDING, F. H., & CO., Emulsions, Soaps.....	xv	PEAT PRODUCTS (Spagnoli), Ltd., Ointment, Soap.....	xxix	WATFORD MANGF. CO., Ltd., Soap Cubes.....	24
FELLOWS' MEDICAL MFG. CO., Medicinal Syrups.....	xxvii	PELLIOT, H., & CIE, Chemicals.....	xvi	WATSON & CO., Photographics.....	Col. Supp.
FERNIS & CO., Ltd., Optum Preps, Packed Goods.....	iv	PERKIN, SON & CO., Ltd., Clinical Thermometers.....	27	WENGERS, Ltd., Potters' Chemicals.....	xxi
FINE, F., & CO., Gums.....	xxx	PERRY & HOPE, Ltd., Epsom Salts.....	xxiv	WEST-END PHARMACY SUPPLY, Cachets, Capsules.....	xxx
FLETCHER, FLETCHER & CO., Ltd., Lipore.....	Text	PETRI BROS., Chemicals.....	xx	WESTERN DENTAL CO., Botal.....	xx
FLOREY, HARTLEY, Salicylates.....	xx	PICERNO, V. A., Chemicals.....	xv	WESTMINSTER COLLEGE OF PHARMACY.....	26
FRAME FOOD CO., Ltd., Foods.....	24	PICKARD, IVE & TANKIN, Acetyl-Salicylic Acid.....	xxiii	WHITFIELD & SONS, Ltd., Emetic Salts, Quinine, &c.....	1, xii
FUERST BROS., Ltd., Chemicals (Pure and Technical).....	xvi	PISCO, Ltd., Electrical Novelties.....	25	WHITE SAND MNGF. CO., Ltd., Tooth Powder.....	17
GARDNER, W., & SONS (Gloucester), Ltd., Machinery.....	xxxi	PILLSCHER, J., Clinical Thermometers.....	xxvii	WILLIAMS BROS. & CO., Aniline Dyes.....	xix
		POULENC FRERES, Stovaline.....	25	WILLSON, ASTELL, J., Agencies.....	xxii

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THE VISCOSE
DEVELOPMENT CO., Ltd.
BROMLEY, KENT.



NATIONAL WAR BONDS

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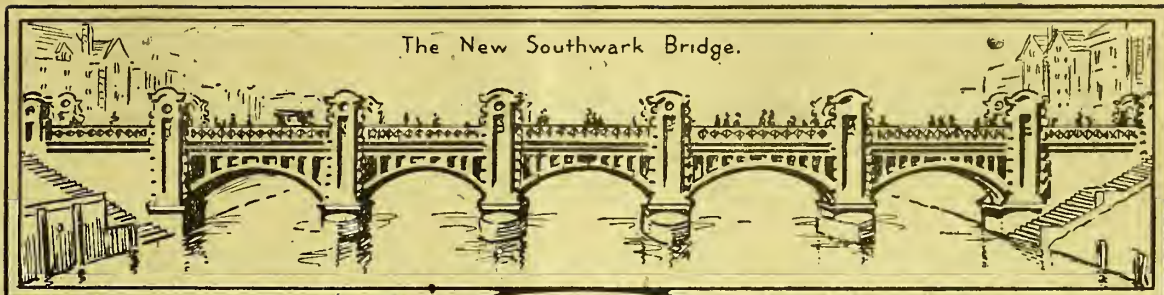
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CAPPING SKINS WHITE SPLITS BAUDRUCHE

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NATIONAL WAR BONDS

We gladly respond to the suggestion made by The National War Savings Committee to employ our page for this week to endorse the National Appeal **TO INVEST IN NATIONAL WAR BONDS**, a security which is recommended as being the safest available to the investor, and whilst returning a good rate of interest, is redeemable at a premium at dates which can be chosen by the Investor. Enquiries respecting the Bonds can be addressed to **THE NATIONAL WAR SAVINGS COMMITTEE, SALISBURY SQUARE, E.C.4.**

R. W. Greeff & Co. THAMES HOUSE, QUEEN ST.
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MANCHESTER BRANCH:
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NEW YORK AGENTS:
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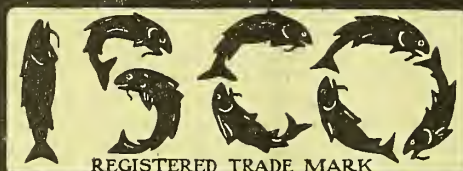
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**PROMPT
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Established 1898

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19 St. Bride Street, London, E.C.

(BRITISH COMPANY)

Recommend You to

**BUY A NATIONAL
WAR BOND
AND SAVE A SOLDIER**

The Government looks to You to help feed, clothe, arm and protect them.

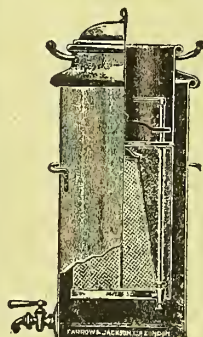
Stand by your Government. Back up the boys who fight for it. Buy all the National War Bonds you can. It will help shorten the War. It may save a precious life.

You want to see the brave lads who are now going abroad come home in safety, and victorious.

"FARJAK"

**ASBESTOS FILTERING
MEDIUMS.**

For the clarification of
PHARMACEUTICAL PREPARATIONS.



The above used with the

**"TOWER"
ASBESTOS
FILTERS**

give the best possible results.

PARTICULARS
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Filling, Corking, Capsuling Machines, &c.

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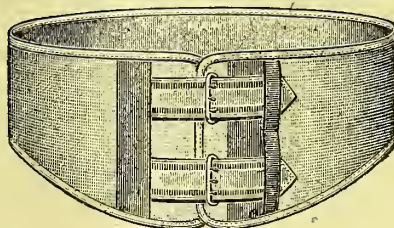
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Maw's Page.

NUMBER 321.

DECEMBER 8, 1917.

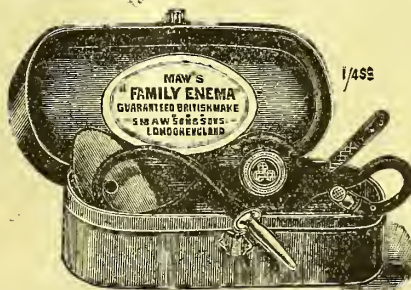
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BODY BELTS FOR THE WINTER TRADE.
TWO GOOD SALEABLE LINES.



"THE ALDERSGATE," Grey Flannel, sizes 28" to 40" ... 2/3 each.

"FLEECY LINED" for warmth and comfort, sizes 28" to 40" 3/4 each.

MAW'S FAMILY ENEMA.



A splendid full-size pattern, black enameled, fitted with bone rectal pipe, gum elastic vaginal pipe and shield. Each put up in serviceable dome-top box ...

38/6
Per dozen.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS.

Style P 100/1
without mirror
per 5/- dozen.

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with mirror in lid
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POUDRE

IMPERIA

A solid, impalpable
Face Powder,
exquisitely per-
fumed in pocket
case with puff,
made in Rouge,
Brunette & all shades



COMPACTE

Packed in beau-
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Private Brands
made for the
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The **EMPIRE PERFUMERY CO.** (Cuxson, Gerrard & Co. Ltd., Proprietors) **OLDBURY.**
COLONIAL AND EXPORT INQUIRIES SPECIALLY INVITED

"LESCOL" FLORAL PERFUMES

NOTICE !

We strongly advise Chemists before purchasing their Christmas lines to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.

We are holding a large stock at remunerative prices

LESCOL PERFUMERY CO.,

Lomond Grove, Camberwell Green,
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Telephone: 810 HOP.

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Telegrams: "VANILLIN, CAMBER, LONDON."

THE ORIGINAL ENGLISH PERFUME

Owing to the drastic measures taken by the Minister of Munitions with reference to Perfumery Spirit, prices are subject to revision.

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Importers and Exporters.

First hands for all

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CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

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Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
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THE "D & O" BRAND

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OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
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Buy from one of the Oldest Houses in the Trade.

Write for Prices. ESTABLISHED 1794.

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**CHAPOTEAUT'S
CAPSULES of
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of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
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MORRHUOL CHAPOTEAUT



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MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
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*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
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SOLD BY ALL DRUGGISTS.

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(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA
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and other intestinal disturbances.
SOLD BY ALL CHEMISTS**



*I find the odor exquisite and
I am charmed to have treated
by my name. Very Sincerely
Mary Garden*

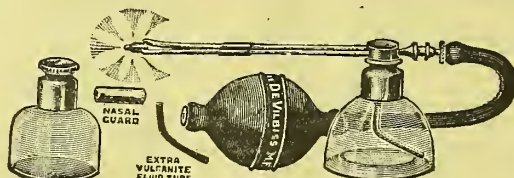
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ARRANGEMENTS NOW MADE FOR COMPLETE SUPPLIES.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

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Winter Lines you will want!

WHITE BAND CO.'S

Reliable and Saleable Packed Goods.

CHILBLAIN OINTMENT

In two kinds:

For Broken Chilblains.

For Unbroken Chilblains.

A Product of Real Efficiency.

Very Smartly Got-up.

A Ready Seller.



Per gross 42/-

LANOLINE

The Right Colour!

The Right Quality!

Actually Superior to the original
German product.

In smart display cartons, ^{Per gross} 45/-



Also in the same style:—

COLD CREAM

A Very Fine Quality Per gross 45/-

These and other Lines can be obtained on Bonus Terms.

Write for Complete Lists of Winter Lines & Bonus Lists.

WHITE BAND MFG. CO., LTD. SOUTH CROYDON.

Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

INGRAM'S OFFER.

1 Doz. Milkweed Cream	Retails for 2/- each	(2.00)	3/-
Doz. Velveola Souveraine (Face Powder) ..	" " 2/- "	(2.00)	3/-
Doz. Zodenta Paste	" " 1/- "	(1.00)	4/-
Doz. Rouge... ..	" " 2/- "	(1.00)	4/-
Doz. Perfume, 1 oz. ass't. in fancy packages ..	" " 4/- "	(4.00)	16/-
		10,00	£2

Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

If more convenient to you, specify shipments from our Canadian Branch.

FREDERICK F. INGRAM CO.

(ESTABLISHED 1885)

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Twenty-five years continuous advertising has made this trademark known wherever American and Canadian publications are read.

"Prana" Sparklets.

NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,

"Prana" Sparklet Works,
Upper Edmonton, N.



A Quick - Selling, Profitable Emollient.

Lay in a stock of Snowfire—the popular emollient of women-workers everywhere. After any grimy work—at munitions, in factories, or on the land—Snowfire quickly clears the pores of dirt, removes all blemishes from the hands. Its sales are large and steadily increasing—the profits gained are 35 to 43 per cent.

Snowfire

commands attention by wide advertisement. Publicity matter to help your sales gladly supplied on request. We pay carriage to customers' doors—goods sent by passenger train, packing cases free.

Snowfire is sold only by Chemists and Druggists.
Write for full particulars to

F. W. HAMPSHIRE & CO., Ltd., Riverside Works, DERBY

IMPORTANT NOTICE

TO THE WHOLESALE AND RETAIL TRADE.

67 Hatton Garden, London, E.C., December 1, 1917.

Dear Sirs,—We regret to inform you that we are obliged to raise the Wholesale Prices of our Macassar Oil and Kalydor on January 1, 1918. The alteration in prices will be as follows :

MACASSAR OIL.

3/6	bottles	...	...	...	from	25/-	per dozen to	28/-
7/-	"	...	...	...	"	50/-	"	56/-
10/6	"	...	...	...	"	78/-	"	86/-
21/-	"	...	...	...	"	156/-	(not altered).	

KALYDOR.

2/3	bottles	...	...	...	from	21/-	per dozen to	24/-
4/6	"	...	...	...	"	42/-	"	48/-
8/6	"	...	...	...	"	76/-	"	84/-

The ADVERTISED PRICES of the KALYDOR will in future be :

2/6 per bottle instead of 2/3. 5/- per bottle instead of 4/6. 9/6 per bottle instead of 8/6.

The enormous increase in the cost of all the ingredients used in the manufacture of these articles compels us to do this. Faithfully yours,

A. ROWLAND & SONS.

SALVARSAN

PREPARED UNDER LICENCE
FROM THE BOARD OF TRADE

By

EVANS SONS LESCHER & WEBB, LTD.,
LIVERPOOL AND LONDON.

*Each batch is tested Chemically and
Physiologically in our Laboratory.*

PRICES AND LITERATURE ON APPLICATION.

All

Gravities

**LIQUID
PARAFFIN
B.P.**

Finest

Qualities

**PARAFFIN
MOLLE ALB.**

**STERNS
LTD.**

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**PARAFFIN
MOLLE
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& Yellow

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White & Half-White Oils. Coloured Oils, Bloomless Oils

BRITISH MADE

WE CAN GIVE DELIVERY of the BEST WINTER LINE.

"SYMPHELITE" Patent SPIRIT STOVES

Absolutely Safe. No Evaporation in Stock. Cheapest in use. No Wicks. Renewable indefinitely with Methylated Spirit or PETROL.

NOTE.—If upset the "Symphelite" is quite safe. It will either extinguish itself or remain burning on its side like this.

BRITISH OWNED

IF UPSET
QUITE
SAFE.

NO
LIQUID.

NO
SPILLING.



GREAT DISCOVERY THE ONLY STOVE THAT WILL BURN PETROL

The New Bunsen Stand burns Petrol without Smoke or Danger.

COMPARISON

	cost.
Solidified Spirit, boils 2 pints in 34 min. ...	2½d.
"SYMPHELITE" ...	...
With Methylated Spirit " " 17 " ...	3d.
" PETROL " " 9 " ...	3d.

PRICES

THE "SYMPHELITE" STOVE.

	EACH.
No. 1 STOVES ...	1s. 3d. and 1s. 9d.
Ditto, Plated ...	2s. 9d. and 3s. 6d.
TRAVELLING SETS ...	2s. 6d.
Ditto, Plated Steel ...	6s. 6d.
Ditto, Polished Copper ...	12s. 6d.
Model de Luxe Sets ...	14s. and 17s.
SHAVING SETS ...	1s. 6d.
Dirt, Plated ...	2s. 6d.
PICNIC BOILERS ...	5s. 9d., 6s. 6d., 7s. 6d.

LARGELY USED in the TRENCHES.
Also for Hospitals, Nursing, Motoring, Boating,
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A GREAT LINE FOR CHEMISTS AND FACTORS.

Trade Discount 33½ %, and 2½ % one month.
Every Mother needs a "Symphelite" Stove

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Agents wanted for the Midlands and West of England.
A great Export Line for all Countries.

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WE wish to draw the attention of our Patrons to the fact that instead of using this space to advertise our own goods, we are, in company with our fellow-advertisers, utilising it to advise our customers to invest their savings regularly in

NATIONAL WAR BONDS

You can buy a Bond from
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Order Post Office or Bank.

**WILL YOU BUY ONE
TO-DAY?**

ROBINSON & SONS, Ltd.

Manufacturers of
Cardboard Boxes

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LONDON.

An Open Letter to Pharmacists

VITAMOGEN

FROM the large number of complaints we are receiving every day from medical men of the difficulty their patients are experiencing in obtaining VITAMOGEN, we are convinced that there is some unknown cause for this, as before we placed our preparation on the market we approached all the wholesale houses, and as far as we are aware stocks are being carried by them; but it has occurred to us that possibly a confusion has arisen owing to the great influx of Foods of the nature of the German preparation that our product is a similar preparation, whereas it is quite distinct and has nothing in common with it.

VITAMOGEN is a preparation containing the Vitamines in their natural and unchanged condition—in combination with Fats, Proteids and Carbohydrates—the whole constituting a complete Food in a palatable and easily assimilable form. VITAMOGEN has been found quite as suitable for administering to young children, and even to infants, as to adults.

In a word, VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.

HOW THE VITAMINES WERE DISCOVERED.

The discovery of the Vitamines was brought about by investigating the cause of beri-beri, a disease which was very prevalent in the Malay Peninsula and other countries where rice is the staple article of diet. The rice grain consists of an inner part and an outer husk. In polished rice the outer husk is removed, and the natives, who lived chiefly on such rice, suffered from beri-beri. It was found that the addition of the husk or the substitution of unpolished for polished rice, was sufficient to cure the disease. The symptoms of this disease are such as arise from peripheral neuritis, or atrophy of the peripheral nerves with subsequent degeneration of the muscles, including the heart muscle. The "something" contained in the rice husk which prevents or cures beri-beri has been shown by Funk to consist of Vitamine. He has succeeded in extracting it from the rice husk in a more or less pure state.

We would, therefore, like Chemists to know something of the nature of our product; and if anyone is interested in this subject and will write to us, we shall be pleased to send further particulars giving some interesting data, as the result of investigation that has been made by eminent physiologists in all parts of the world.

VITAMOGEN is being advertised in all the principal medical journals throughout the United Kingdom, and if any Chemist would like to have details for his own use, or to pass along to medical men whom he thinks it might interest, we shall be pleased if he will communicate with us.

VITAMOGEN is packed in two sizes, 2/- and 4/6; obtainable from all the principal Wholesale Houses.

VITAMOGEN owes its origin to our Chairman, who twenty years ago invented Virol, the well-known invalids' food.

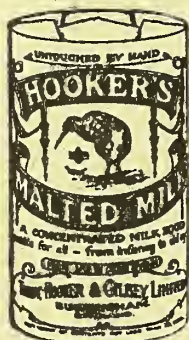
Vitamogen, Ltd.

24 Holborn, London, E.C. 1.

HOOKER'S MALTED MILK

"A complete food." — *Lancet*.

SELLS ENTIRELY ON MERIT.



There is no Higher Quality or Better Value

BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.

PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.



**LIQ. SANTAL FLAV.
C. BUCHU et CUBEBA**

(Hewlett's)

Price 11/- per lb. Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

Of proved utility in Nervous Diseases, and a Powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value, enhanced by the presence of assimilable phosphates." — *The Lancet*.

WHOLESALE PRICES:

No. 1.	1 1/2 oz. Tin ...	9/- per doz.
" 2.	3 1/2 " " " "	14/6 " "
" 3.	6 1/2 " " " "	24/- " "
" 4.	12 " " " "	42/- " "

Introduced and prepared only by

C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., LONDON, E.C. 2.

**MIST. PEPSINÆ CO.
C. BISMUTHO**

(Hewlett's)

Price 11/- per lb. Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.



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ALIMENTARY AND INDUSTRIAL

Dairy Produce Importers.

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Office : 5 LLOYD'S AVENUE, LONDON, E.C.

Works & Warehouses : 9 ALDGATE AVENUE, LONDON, E.

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"SURICODON, LONDON."

**ALL CHEMISTS
SHOULD STOCK**

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.

Wholesale Prices on application. Sample Box 1/3.

B. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Groydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

What Mr. Horatio Bottomley — THINKS OF — ALKIA SALTRATES — AND — REUDEL BATH SALTRATES

THE BEST OF ALL SALINES
for Liver, Kidney, or Rheumatic
Disorders, etc. etc.

THE BATH PREPARATION PAR EXCELLENCE, cures Corns and all Foot
Troubles permanently, stops rheumatic or other aches and pains within ten minutes.

[NOTE.—It gives us very great pleasure to announce that the fearless and outspoken editor of "John Bull," whose readiness to praise anything good is only equalled by his promptness in condemning anything bad, has joined the long list of prominent men and women who have used our preparations with results so gratifying that they are only too glad to acknowledge the great benefits derived.—SALTRATES, LTD.]

JOHN BULL

TELEPHONES: CERRARD 9637.
TELEGRAPHIC ADDRESS 9638.

"HEROICALLY, LONDON."

The Manager,
The Saltrates Co., Ltd.,
214, Gt. Portland Street, W.

25th
July,
1917

EDITORIAL OFFICES.

93, LONG ACRE,

LONDON, W.C.

Dear Sir :-

Now that all German Spas are taboo,
may I congratulate you on your Alkia Saltrates and
Reudel Bath Saltrates, which to my mind (and body)
beat Carlsbad into a cocked hat.

In future, with your help, I shall
certainly support Home Industries by taking my cure
on the spot.

Yours faithfully,

Horatio Bottomley

What is Alkia Saltrates?

Dissolved in plain water it gives you an exact reproduction of the essential medicinal constituents found in famous Spa waters.

The dose. Less than half of what you have been accustomed to take of ordinary salines.

The taste is pleasant, children cry for it. It makes a sparkling effervescent draught.

The effects. Stimulates the liver, flushes the kidneys, purifies the blood, corrects hyperacidity and other stomach disorders, and eliminates all uric acid or any other impurities from the entire system. Best of all anti-rheumatic agents. Guaranteed free from any depressing or other bad after effects.

The price. Only 2/9 a large bottle. Enough to last the whole family for weeks.

What is Reudel Bath Saltrates?

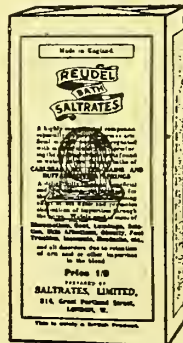
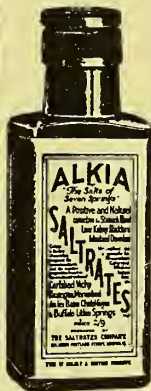
Dissolve this in plain hot water and you will have an exact reproduction of the highly medicated and oxygenated curative bathing waters found at celebrated Continental and other springs and spas.

The effects.—Softens and brings corns right out, root and all, so there is nothing left to sprout a new corn again, as when you merely cut the top off or burn it off with caustic liquids or plasters.

A Saltrated Bath will stop any rheumatic or other aches and pains in muscles or joints within ten minutes. Also its strongly antiseptic and healing qualities will cure bad skin affections quickly and permanently.

The price.—1/9 a half-pound or 2/9 a pound. Only a handful of the concentrated compound is required for a full bath, or a tablespoonful for a strong foot bath.

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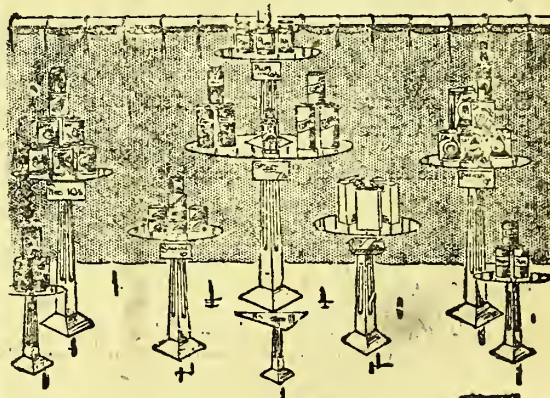


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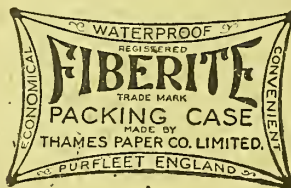
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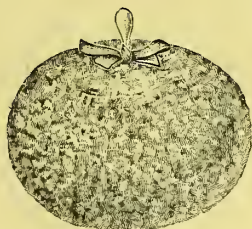
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CONTENTS: No. 49 (Series No. 1976), Vol. 89.

	PAGE		PAGE
Coming Events	33	Insurance Act Dispensing ..	35
Company News	37	Irish News	35
Corner for Students	34	Legal Reports	37
Correspondence:		Marriages	38
Letters	50	Observations and Reflections	41
Subscribers' Symposium ..	51	Personalities	40
Legal Queries	52	Pharmaceutical Society of	
Miscellaneous Inquiries ..	52	Great Britain:	
Deaths	38	Council-meeting	45
Editorial Articles:		Poisonings	35
Price-lists Prohibition	42	Retrospect	52
Copper-sulphate Market ..	43	Scottish News	36
Sale of Opium	44	Society of Chemical Industry	47
War Restrictions	44	Trade Notes	40
The Nitrogen Problem ..	44	Trade Report	48
English News	35	Westminster Wisdom	36
European War	33	Wills	36
Gazette	38	Winter Session of Chemists'	
General Medical Council	41	Associations	46
Information Department ...	40	"Year-book of Pharmacy" ..	40

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, December 12.

Western Pharmacists' Association, Frascati's Restaurant, Oxford Street, London, W., at 8.15 p.m. Lantern-lecture by Mr. J. P. Gilmour, Editor of the "Pharmaceutical Journal," on "Pre-War Vacations in Ireland and Scotland." Ladies especially invited.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 7.30 p.m. Mr. J. H. Tainsh on "Apprenticeship Twenty Years Ago and Now," and Mr. J. Rutherford Hill on "Back-shop Experiments—A Practical Demonstration."

Manchester Pharmaceutical Association, Chess Club Room, 65 Market Street, at 8.30 p.m. Smoking-concert; collection for the Benevolent Fund.

Thursday, December 13.

North London Pharmacists' Association, and West Ham Association of Pharmacy, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 3.30. Mr. Alec Nathan, Managing Director of Glaxo, Ltd., on "Business Methods."

Harrogate Pharmaceutical Association. Dr. F. A. Johns, M.B., M.R.C.S., on "Ultra-violet Light."

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, at 5 p.m. Mr. F. G. Hines, York, on "Some Thoughts on Reconstruction."

European War News.

Import and Export Notices.

FRANCE.—The Board of Trade are informed by the French Customs Office in London that with a view to avoiding delays, which sometimes occur under the existing procedure, both the original and copy licences issued by that Office will be sent to the exporter in the United Kingdom instead of the original being sent, as heretofore, direct to the consignee in France (or to the forwarding agent, if desired), and the copy being sent, for information, to the exporter in this country. Under the new arrangement the original licence must be attached to the shipping papers (or to the Customs declarations in cases where goods are sent by parcel-post), and will accompany the goods in order to be produced to the French Customs authorities on clearance in France. The copy licence will, as before, be available for presentation to the shipping companies or to the postal authorities.

SWITZERLAND.—An Order in Council, dated November 27, makes the following amendments in and additions to list of articles prohibited to be exported from Great Britain to Switzerland: *Headings deleted.*—Nitrate of soda, raw; soda, bicarbonate of; soda crystals. *Headings added.*—Saltpetres, unrefined, crude salts of ammonia, calcic cyanamid; soda, bicarbonate, in all forms.

Personalia.

MR. J. H. CUNNINGHAM, R.D., of Parke's Drug Stores, Ltd., London, and formerly with Wm. Dobbin & Co., Ltd., North Street, Belfast, has joined the R.A.M.C.

PRIVATE R. M. WILKINS, Hampshire Regiment, has been wounded in action. In civil life he was an assistant with Mr. Isaac Green, chemist and druggist, Tutbury.

SERGEANT H. S. CLIFF has been awarded the Military Medal for rescuing the wounded under great difficulties. Prior to enlistment he was with Mr. J. W. Cocks, Ph.C., Torquay.

SIGNALER CYRIL BURGESS, Royal Horse Artillery, has been awarded the Military Medal. Up to the time of joining the Forces he was with Brotherton & Co., Ltd., manufacturing chemists, Wakefield.

MR. EDMUND GREEN, who in civil life was an assistant with Mr. George Squire, Ph.C., Haymarket, Sheffield, has been appointed a Sergeant-Dispenser, and is to take up his duties in Egypt.

PRIVATE W. ROUHAN, Yorkshire Light Infantry, has been wounded in action for the seventh time. He enlisted, on the outbreak of war, from the staff of J. Nicholson & Sons, Ltd., manufacturing chemists, Hunslet.

LIEUTENANT KENNETH E. WOOTTON, Tank Corps, is in hospital in France, severely wounded. Lieutenant Wootton is the son of Mr. Henry Wootton, B.Sc., Principal of the London College of Pharmacy, Clapham Road, London, S.W.

SECOND-LIEUTENANT JAMES MCNAUGHT, Royal Irish Regiment, has been mentioned in a despatch received from General Milnes. Lieutenant McNaught, who is the son of Mr. Andrew McNaught, Ph.C., Queen's Bridge Pharmacy, Belfast, served in the ranks before receiving his commission.

SECOND-LIEUTENANT C. R. ALDERSON, R.E., has been awarded the Military Cross. Lieutenant Alderson, whose apprenticeship in pharmacy was served with Mr. Thomas Edmondson, chemist and druggist, Penrith, enlisted on the outbreak of war, and received the Military Medal about fifteen months ago for saving life.

Miscellaneous.

OLIVE OIL.—The use of olive oil for the production of tops and yarns by the manufacturers of woollen or worsted goods is forbidden after December 15, except under permit.

ENEMY PATENTS.—Mr. L. Gaisman has been granted licences to use patents 11530/13, 11615/13, 12777/13, and 12661/14, dealing with processes for vulcanising rubber and belonging to the Farbenfabriken vormals F. Bayer & Co., or the Public Trustee.

MILITARY SERVICE CHARGE.—At a court-martial at Middlesex Guildhall, on November 30, Staff-Sergeant John Foster Morgan, R.A.M.C., pleaded not guilty to supplying six capsules, each containing 10 gr. of antifebrin, to Walter Henry Sydenham, second air mechanic, with intent to enable him to render himself unfit for military service. It was stated for the prosecution that 5l. was to have been paid for the six capsules, and 1l. 10s. for a further six. The Court's decision will be promulgated.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on November Analytical Exercise.

THE powder distributed to students on November 6 contained 90 parts by weight of sodium hydrogen carbonate, 5 parts of sodium metarsenite, and 5 parts of di-sodium hydrogen phosphate. The calculated composition of such a mixture is:

Na	...	...	...	26.2
CO ₃	...	...	...	64.3
AsO ₂	...	...	...	4.1
PO ₄	...	...	...	1.3
H	...	...	...	1.1
H ₂ O	...	...	...	3.0

100.0

Samples of the powder were distributed to forty-four students, and twenty-eight reports were received. Sodium and the carbonic-acid radical were detected by all our correspondents. Failures to detect the phosphoric-acid radical numbered eighteen. Arsenic was missed entirely in three cases, while ten students who detected it failed to indicate that it was present as an arsenite. The evolution of water on heating, which amounted to 13 per cent. of the weight of the powder, was overlooked in nine cases.

Although free from difficulty as regards insolubility or troublesome separations of metallic radicals, this exercise had one complication which was satisfactorily dealt with in but few cases. The recognition, with certainty, of the small proportion of the phosphoric-acid radical demanded the previous separation of the arsenic as sulphide, since the tests with ammonium molybdate and with silver nitrate were alike inapplicable to a solution containing arsenic in either state of oxidation. Students who detected arsenic in the ordinary routine found, as they expected, that, when testing a neutral solution for acid radicals, silver nitrate produced a yellow precipitate, and, with very few exceptions, they overlooked the fact that this might contain silver phosphate as well as silver arsenite. It is unsafe to assume that an observed reaction which is in accord with the expected behaviour of some constituent already detected is due to that constituent alone when others might behave similarly. Since ammonium chloride and excess of ammonia, added as group reagents, did not produce any precipitate, the ammonium-molybdate test was usually omitted at this stage, when (the arsenic being removed) its indication would have been decisive.

Treatment of the aqueous solution of the powder with magnesium sulphate, cold and on boiling, was commonly resorted to with a view to ascertaining whether a carbonate or a bicarbonate was present. Apart from the fact that a dilute solution of sodium carbonate does not give a precipitate with magnesium sulphate in the cold, but does so on boiling—the object of this supposed test being, in consequence, defeated—the same result is obtained from a dilute solution of an arsenite and also of a phosphate. These points students would do well to verify experimentally.

Testing for potassium by the flame-test applied to the original substance only, and observed through blue glass which was probably insufficiently intensely coloured, seems to have been responsible for many reports of the presence of this metal.

The fact that the arsenic-group precipitate did not dissolve entirely in hydrochloric acid led several students to the unwarranted conclusion, without having tested the matter, that none dissolved, and hence to the omission to apply any tests for antimony and tin.

Many students appear to be uninformed as to the end to be attained by boiling a substance with water and sodium carbonate in preparing a solution to be tested for acid radicals, since the futile carrying out of this operation in the present analysis was commonly reported, as was also the formality of filtering the solution they obtained, although there was no precipitate to separate.

PRIZES.

The First Prize for the best analysis has been awarded to ALFRED G. SCOTT, 33 Sciennes Road, Edinburgh.

The Second Prize has been awarded to JOHN J. WITTEN, 51 Hendon Road, Sunderland.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSIS.

1. Correspondents who are unqualified:

A. G. Scott (1st Prize)	92	Atom	...	...	...	71
J. J. Witten (2nd Prize)	89	C. O. P.	...	...	...	71
Chamomile	...	Juan	...	...	...	70
E. M. Oliver	...	Corse	...	...	...	64
Somme	...	Hedera	...	...	...	64
Melonia	...	W. G. K.	...	...	...	53
Single Seidlitz	...	Oro	...	...	...	62
Secundus	...	Garnet	...	...	...	61
C. W. E. Holden	...	The Bing Boys	...	...	...	60
Blowpipe	...	Velox	...	...	...	58
Mark	...	J. C. N.	...	...	...	54
Propane	...	Vertin	53
Samarium	...	Pies	52

2. Correspondents who are qualified:

Rajar	63	Snavi	81
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TO CORRESPONDENTS.

Alfred G. Scott.—We failed to obtain confirmation of a trace of potassium by aid of the test with chloroplatinic acid.

J. J. Witten.—A most carefully conducted test for traces of an ammonium salt failed in our hands to give a positive result. The absence of antimony and tin should have been established.

Chamomile.—It is not enough to state that "all further search for acid radicals gave negative results": particulars of the tests applied should be given.

E. M. Oliver.—Your report is neat and accurate, but it should have included details of the preliminary testing and a summary of conclusions in order to have secured for you the position in the list which your careful work seems to merit.

Somme.—You should have endeavoured to ascertain whether or not the arsenic was present as an arsenite. You have inadvertently written Mg as the symbol for manganese.

Melonia.—The volatile matter given off when the powder was heated consisted almost exclusively of water-vapour and carbon dioxide. It is not clear how you were deceived into supposing that this mixture could be ignited.

Secundus.—In testing for acid radicals you added hydrogen sulphide to an acidified solution and obtained immediately a yellow precipitate, from which you concluded that an arsenite was present and a phosphate absent; but what evidence as to the phosphate was supplied by this test?

Propane.—Evidence for your opinion that the powder did not contain heavy metals should have been given. It is essential to furnish the grounds for the conclusions at which you arrive.

Samarium.—Details of some of your confirmatory tests are puzzling, but we hesitate to attribute them to imagination. For instance, in trying to establish the presence of an oxalate, you acidified an aqueous solution of the powder with hydrochloric acid, evaporated to dryness, dissolved the residue in water, and to part of the solution added silver nitrate; and the precipitate you obtained (which must have consisted partly of silver chloride) you report as soluble in ammonia and in nitric acid.

C. O. P. and J. C. N.—We are unable to account for the very definite evidence for the presence of antimony which you report. None was present.

Juan.—In several places you report filtering where there was no precipitate—for what purpose it does not appear. Is this mere slavish following of text-book instructions without considering what the procedure is designed to effect?

Corse.—Your failure to obtain a precipitate of arsenious sulphide with hydrogen sulphide seems inexplicable since the presence of hydrochloric acid, even in large proportion, would not prevent its formation.

Hedera.—Under tests for acids you write: "After obtaining the necessary solution"; but how this solution was prepared and whether it was acid, alkaline, or neutral—although of the first importance—is left unstated.

W. G. K. and The Bing Boys.—You would learn a great deal by repeating this analysis in the case of a similar mixture prepared by yourselves.

Velox.—The odour which you thought to indicate a hypophosphite was due to the arsenite.

Pies.—You omitted to test for magnesium and potassium in your systematic analysis.

Snavi.—Your evidence for arsenic was fairly conclusive. The formula for potassium permanganate should be written KMnO_4 , instead of $\text{K}_2\text{Mn}_2\text{O}_8$, the available evidence pointing to the former and not to the latter.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham Minimum Prices.

The December price-list issued by the Minimum Prices Committee of the Birmingham Pharmaceutical Association contains the following alterations, among others:

	Drugs.			
	1 oz.	2 oz.	4 oz.	1 lb.
	d.	d.	s. d.	s. d.
Camphor (tablets) ...	4½	9	1 6	—
Castor oil ...	2½	5	0 10	—
Cod-liver oil, in bottles ...	—	—	1 0	3 6
Hyposulphite of soda ...	—	—	—	0 7½
Liquorice-and-menthol drops	6	—	—	—
Sugar of milk ...	3½	5½	0 11	3 3

Proprietarys.

Clarke's Pyramid Night-lights, 10d. per box.
 Grossmith's Preparations: Perfumes, 3s. 3d., 6s.; Soap and Face Powder, 7d., 1s. 3d.
 Finaud's Pomade Hongroise, tubes, 6d., 11d.; pots, 10d., 1s. 6d.
 Price's Child's Night-lights, 8d. per box.
 Valentine's Meat-juice, 3s. 7½d. per bottle.
 Vaseline Preparations: Camphor Ice, 6d.; Hair- tonic, 1s. 6d., 2s. 11d.
 Vinolia Soap, Baby or Royal, 1s. 6d. per 3-tablet box.
 " " Otto, 3s. per 3-tablet box.

Birmingham.

There is an embargo on Christmas boxes to customers this year.

Closing on December 25 to 27 inclusive will be general locally, and pharmacy will follow suit.

Three medical men in Birmingham have been surcharged 35% for excessive N.H.I. prescribing during 1916. Hope has been expressed that, on the other hand, there should be no under-prescribing.

A suggestion made at the recent annual meeting of the Moseley and Kings Heath Horticultural Society by Mr. F. H. Alcock, that attention should be paid to the production of honey and wax, was favourably received, and is likely to be acted upon.

Cambridge.

The branch recently closed by Mr. E. H. Church, Ph.C., in Hills Road owing to shortage of managerial help, is to be opened as a communal kitchen.

At Cambridge Borough Police Court, on November 29, Amyo Palchoudhuri, undergraduate, Trinity College, was remanded on bail on a charge of stealing a V.P. Kodak, value 6l. 5s., the property of Mr. Walter Frederick Turner, chemist and druggist, 36 Trinity Street. Evidence was given by Mr. Sydney James Parson, chemist and druggist, 4 and 5 Peas Hill, to the effect that the camera was recently offered him by the prisoner, who said that he had exchanged it with a friend.

Liverpool.

A dispenser from this district, who has for three years been in charge of the dispensary of a military hospital abroad, has received a month's notice to join the infantry. Presumably he is regarded as engaged neither in military nor in national Service.

Lively interest has been aroused locally by the correspondence started by Mr. Jackson (Chave & Jackson, Ltd.) on profits on patents (*C. & D.*, No. 10, p. 51), and informal conferences have taken place with a view to the presentation of the case from another standpoint.

Manchester.

Manchester pharmacists have experienced an unprecedented demand for tea tablets since the shortage of tea became acute, and most of them are unable to obtain sufficient supplies.

The Manchester Insurance Committee has issued a circular instructing panel chemists that as from December 1 every deleted B.P. preparation prescribed is to be understood, in the absence of a contrary intention on the part of the prescriber, as indicating its Codex Addendum equivalent.

Sheffield.

Boots, Ltd., are making their usual display of desk and pocket diaries.

Fine shows of perfumes, including some expensive varieties, are noticeable in the central pharmacies.

Mr. W. R. Orme, apprentice with Eardley & Furnival, chemists, has joined the Brockton Reserve Camp.

No notice of withdrawal from the chemists' N.H.I. panel for 1918 has been received within the statutory period.

Sir Samuel Roberts, a local man and a strong supporter of pharmaceutical claims in the past, has been appointed Chairman of the Grand Committee on the Insurance Acts.

At the installation on December 3 of Mr. Percy Carr, chemist and druggist, as Worshipful Master of the Wentworth Lodge of Freemasons, pharmacy was represented by Bros. H. B. Billington (Barnsley), J. P. Hewitt, P.M., and J. Gilbert Jackson, E.P. Wor. Master Carr is a past President of the Sheffield Pharmaceutical and Chemical Society.

Miscellaneous.

POISONING.—Two inmates of a lunatic asylum in the Isle of Man died from eating hemlock, gathered in mistake for watercress while working on a farm.

FIRE.—A fire occurred recently on the premises of Edward Gorton, Ltd., manufacturing chemists, Paddington, Lancs. The outbreak was prevented from spreading to the main buildings, and was soon brought under control.

ORDERS FOR SUPERPHOSPHATES.—The Food Production Department announces that as there will probably be a shortage of railway trucks in the spring, farmers should at once place their orders for superphosphate with the usual traders.

EARLY CLOSING SUSPENDED AT CHRISTMAS.—The Home Secretary has made an Order suspending the General Early Closing Order for shops under the Defence of the Realm Regulations from Monday, December 17, to Monday, December 24, both days inclusive.

THEFT CHARGES.—At Calne, on November 16, Percy A. Lavory (15) was bound over, on condition of joining the Navy, on a charge of stealing 11l. from the till of his employers, Strawson & Co., chemists, High Street.—At Swindon Borough Petty Sessions, on November 29, Emily Mundee, housekeeper, Purton, was sentenced to fourteen days' hard labour on each of two theft charges, one being the abstraction of a bottle of eau de Cologne from Mr. Vivian Miles's Drug Stores, 51 Fleet Street, Swindon. The defence was that the bottle was inadvertently picked up from the counter with a pair of gloves.—At Old Street Police Court, London, on December 5, Archibald Chown (43), clerk, was charged before Mr. Clarke Hall with having stolen 31 lb. of tartaric acid, value 10l., the property of his employers, The British Drug Houses, Ltd., Graham Street, City Road. The prisoner pleaded guilty. Detective-Sergeant Hook stated that the prisoner was found to have sent out two parcels by boys employed by the company to be left at a railway booking-office in City Road "to be called for." Mr. Cowdray said the prisoner had been twenty-five years in the service of the company, and was paid 42s. a week. Mr. Clarke Hall said but for the prisoner's good character he would have sent him to prison. He fined him 10l.

Irish News.

Brevities.

Mr. Samuel Dale, Ph.C., Clooney Pharmacy, has removed to larger and more central premises at Ebrington Terrace, Waterside, Londonderry.

The Medical Charities Committee of the Belfast Board of Guardians has referred to the Board's solicitor the question of the liability for the recent flooding in the centre of the city, which did considerable damage in Glengall Street Dispensary, destroying drugs, dressings, etc.

For some time past J. & J. Haslett, Ltd., North Street, Belfast, have felt the necessity of having part of their office accommodation on the ground floor for the convenience of their wholesale trade. As no suitable space was available, they have decided to close their retail department. Mr. W. E. Wilson, who has managed that department for the past twenty years, has decided to commence business on his own account. He has secured suitable premises at 31 North Street, where he intends carrying on the same high-class business with which he has so long been identified.

Sir Charles Cameron has intimated to the Tipperary Guardians that, owing to the increase in the prices of chemical apparatus and chemicals, the cost of analysis is much greater than in pre-war times, and has applied for a temporary addition to his salary till the price of chemicals has decreased. The Clerk said it was a most reasonable application. The matter was placed on the agenda for the next meeting. The Oldcastle Guardians agreed to grant Sir Charles an increase of 2l. per annum as drug analyst. The Gorey Guardians refused an increase. Other bodies have also granted increases, but in some instances they have been refused.

Scottish News.

Edinburgh.

An Edinburgh gentleman has left a sum of about a quarter of a million, vested in trustees, for the care and cure of cancer. The money will be available after certain life-interests are terminated.

With the idea of bringing together all the different local Associations connected with pharmacy, a reception, followed by a whist-drive and music, was held in the Oak Hall of the Edinburgh Café, Princes Street, on November 28. The guests were received by Mr. Dick (President of the Edinburgh Chemists' Trade Association) and Mrs. Dick, and included members of that body and of the Leith Chemists' Association and the Assistants' and Apprentices' Association. The musical programme was contributed to by Miss Dobson, Mr. Gardner, and Mr. Tait, with Miss May Bor's effective assistance at the piano; and Mr. J. B. Mitchell excelled himself as M.C. Mr. J. Rutherford Hill moved a vote of thanks to the Chairman in a brief and "pawky" speech; and the National Anthem brought a highly successful function to a close.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

BRITISH BEET-SUGAR.

Sir Richard Winfrey stated in the House of Commons on November 29 that a privately owned beet-sugar factory at Cantley, Norfolk, manufactured approximately 8,700 tons of sugar during the years 1912-1915, but this enterprise ceased in 1916.

DISPENSERS IN THE MILITARY HOSPITALS.

Mr. Ian Macpherson, M.P., informed Mr. Hohler on December 5 that all dispensers employed in military hospitals are required to be qualified under the conditions prescribed in the Standing Orders for the Royal Army Medical Corps. Female dispensers are employed whenever possible, and there is no information of any unqualified dispensers being employed.

WHERE GLYCERIN IS PLENTIFUL.

In the House of Commons on December 3, the Minister of Munitions had several questions addressed to him on the supply of glycerin to shipowners for lubricating cold-air machines for the purpose of meat-preservation. There has been difficulty in obtaining the glycerin owing to cables being held up, said Mr. Houston. Sir Worthington Evans suggested that the glycerin should be obtained in the Argentine, to which country considerable quantities are exported.

THE CONSULAR SERVICE.

Our Parliamentary correspondent states that at a meeting of the Commercial Parliamentary Committee at the House of Commons on Wednesday, Sir A. Steel-Maitland, M.P. (the first Director of the Commercial Intelligence Department), attended for the purpose of making a statement in regard to the progress already made in his Department. Sir Arthur dealt at some length with the reorganisation of the Consular Service, which for some time past has engaged the close attention of the Foreign Office and the Board of Trade, the appointment of commercial *attachés*, and other methods which have been adopted for bringing the traders of this country into closer touch with foreign markets.

ORANGE-PEEL.

It was stated in the House of Commons on November 29 that the Food Controller has arranged to supply manufacturers with the bitter oranges purchased under his directions in Spain and Italy this season and required for the manufacture of marmalade for the Army and civilian population, at a provisional price of 45s. per cwt. of sound fruit delivered free on rail at the port of arrival. This figure will be subject to adjustment when the actual cost of deliveries has been ascertained. The corresponding price last season, so far as purchases for Army marmalade are concerned, was approximately 32s. 6d. per cwt. The difference is mainly due to the increase in freight and war insurance rates.

PHARMACEUTICAL PREPARATIONS.

Mr. Anderson on December 4 asked the President of the Local Government Board if he is aware that the British Medical Association and the Pharmaceutical Society have

issued a Formulary containing pharmaceutical preparations known as glycerins which are devoid of glycerin and syrups free from sugar; and whether, considering that the Formulary is to come into use on December 1, he will issue instructions to local authorities to take samples of dispensed medicines with a view of submitting them to examination by public analysts?

Mr. Pratt (for Mr. Stephen Walsh) replied: The answer to the first part of the hon. member's question is in the affirmative. The attention of public analysts has already been drawn to the fact that the General Medical Council have found it necessary to withdraw certain medicinal preparations from the British Pharmacopœia owing to the need for economising in the use of glycerin and sugar. It does not appear to my right hon. friend that any further action on his part is necessary. He is advised that the omission of sugar and glycerin from the preparations in question does not materially lessen their value as medicines.

Mr. Anderson also asked the Comptroller of the Household, as representing the National Health Insurance Commissioners, if he is aware that the British Medical Association and the Pharmaceutical Society have devised and agreed to employ in prescribing and dispensing for insured persons a Formulary which contains pharmaceutical preparations known as glycerins which are devoid of glycerin and syrups free from sugar; whether this Formulary has the sanction of the National Health Insurance Commissioners; and whether, seeing that it is proposed that these preparations shall come into use on December 1, he will take immediate steps to remind Insurance Committees that insured persons are entitled to have genuine medicines prescribed and dispensed for them, and that samples should be taken of dispensed medicines with a view of submitting them to examination by public analysts?

Sir Edwin Cornwall replied: I understand that the General Medical Council have deleted from the British Pharmacopœia certain preparations containing glycerin or sugar, owing to the importance in the public interest at the present time of restricting, as far as possible, the medicinal use of these substances to purposes for which efficient substitutes are not available. Alternative preparations have accordingly been formulated in the publication referred to; that document did not require the approval of the Insurance Commissioners. In reply to the concluding paragraph of the question, I would remind the hon. member that it is the duty of every doctor attending an insured patient to prescribe the proper and sufficient drugs and medicines that are necessary for the efficient treatment of the case, and this is in no way affected by the issue of the Formulary in question. The Commissioners are not aware of any reason for issuing such a communication to Insurance Committees as the hon. member suggests.

Mr. Anderson: Am I to understand that the same rule applies both to insured and uninsured persons, and that medicines which are supposed to contain glycerin will not contain glycerin in either case?

Sir E. Cornwall: I do not think that I can add anything to the answer which I have given.

Mr. Anderson asked the Parliamentary Secretary to the Ministry of Food if he is aware that a Formulary has been issued recently by the British Medical Association and the Pharmaceutical Society, in which the use of maize or rice-starch is ordered as an ingredient in *pulvis glycyrrhizæ compositus* (compound liquorice-powder); and whether, seeing that the Maize, Barley, and Oats (Restriction) Order forbids the use of starch from cereals in any article not used as a food, he proposes to take notice of this incitement to infringe the Order referred to?

Mr. Clynes, in reply, said the quantity of maize or rice-starch used as an ingredient in compound liquorice-powder is negligible. The answer to the second part of the question is in the negative.

Wills.

MR. WILLIAM WAKEFIELD, retired chemist and druggist, Williseroft, Station Road, Knowle, Warwick, who died on September 8, left estate valued at 5,903l. 12s. 10d. gross, with net personalty 4,809l. 16s. 3d.

MR. EDMUND HARDIE ANDERSON, chemist and druggist, View House, Denny, Stirling, who died on August 27, left personal estate of the total value of 18,436l., of which the personal estate in the United Kingdom amounts to 16,417l., and of which 12,609l. is Scottish estate.

MR. HENRY AUGUSTUS HIGGINBOTTOM, Oakfield, Lapwing Lane, Didsbury, and of Higginbottom & Co., chemical and metal merchants, Manchester, who died on August 22, left estate valued at 71,493l. 14s. 7d. gross, with net personalty 70,714l. 5s. 8d.

Legal Reports.

Vinegar.—At Lambeth, on November 28, Thomas Watts, 441 Coldharbour Lane, S.E., summoned for selling vinegar which was certified to be 36 per cent. deficient in acetic acid, said the article was sold to him as pure vinegar. He was fined 10s., and 10s. costs.

Bromural Tablets.—At the Mansion House, London, E.C., on December 5, Hammond, Jeffery & Co., Ltd., 8 Harp Lane, E.C., were summoned by the Board of Customs and Excise for selling bromural tablets without affixing medicine-stamps. Mr. G. B. Ellis defended. A fine of 10l. was inflicted, two other summonses being dismissed.

Pharmacy Act Case.—At Westminster on December 3, the Army and Navy Co-operative Society, Victoria Street, Westminster, was fined 3l. and 3l. costs for selling a compound aloin preparation containing strychnine without affixing the name and address of the Society. The bottle was labelled poison. Mr. L. Johnson, manager of the drug department, said the omission was due to the carelessness of an assistant. The Magistrate said that the fact that the purchaser had been asked to sign the 'poison-book' reduced the gravity of the charge.

Employers' Liability Act.—Claims in three actions brought against the Cassel Cyanide Co., Ltd., Glasgow, were settled in the Court of Session, Edinburgh, on November 28. The claims arose out of fatalities that occurred in July 1916 during the repairing of a gasometer. Mrs. Seath and her two daughters, who claimed 1,200l. for the death of Andrew Seath, husband and father of applicants, were awarded 550l. and expenses, and a claim by Mrs. Seath for 350l. for the death of her son, Robert Seath, was settled for 100l. and expenses. Mrs. McLean, who claimed 1,000l. for herself and son for the death of her husband, accepted a payment of 470l. and expenses.

Sale of Opium.—At Grimsby Police Court on November 27, Mr. Victor J. Stockwell, chemist and druggist, manager for Mrs. Barker, Cleethorpes, was summoned, under the Defence of the Realm Regulations, for selling opium to an unauthorised person, Mrs. Eliza B. Shelton for receiving opium, and Dr. J. Williamson for aiding and abetting Mrs. Shelton to procure opium. Mr. H. K. Bloomer, for the prosecution, explained that only authorised persons may receive opium. In this case Dr. Williamson, at the request of the *locum-tenens* for Dr. McKane, wrote an order for the opium for Mrs. Shelton, who suffers from cancer, and Mr. Stockwell supplied it. Prosecutor thought that there had been misapprehension on this matter, and the police did not desire to press the cases unduly. Evidence was given by Inspector Johnson, who said that Mrs. Shelton admitted that she had bought five or six lots of opium from Barker's, as it was the only thing that relieved her. She paid 4s. for half an ounce of opium. Mr. J. F. Wintringham, for Dr. Williamson, said it is almost impossible to keep up with all the regulations made under the Defence of the Realm Act. He hardly thought a technical offence had been committed, but his client would plead guilty to that. The Chairman of the Bench said there had been a technical mistake on behalf of all the defendants, and each would have to pay the costs, 4s. 6d.

Chemist Awarded Damages.—In the Court of Session at Edinburgh on November 28, Lord Anderson gave judgment in the action in which James Dunn, chemist and druggist, Newton-Stewart and Creetown, claimed damages for himself and his two children from S. Pearson & Son, Ltd., contractors, Greta, and Hugh Symington & Sons, Ltd., contractors Glasgow, in respect of personal injuries and the death of his wife in an accident which took place at a level-crossing near Dornock Station, Dumfriesshire. The level-crossing is situated on the road between Dumfries and Carlisle, and connects a number of sidings adjoining the Glasgow and South-Western Railway line with certain works then in course of erection by Pearson & Son. On Sunday, July 23, 1916, plaintiff left Newton-Stewart on his motor-cycle accompanied by his wife in a side-car. As he approached the level-crossing the gates were open for road traffic, but when he reached the crossing a number of waggons coming from the direction of the siding struck the north gate, carrying it across the road, and the gate and waggons struck plaintiff and his wife with great force, his wife being killed instantaneously and the motor-cycle and himself were crushed through the south gate. Plaintiff sustained severe injuries. Lord Anderson awarded the plaintiff as against Pearson & Son 1,250l. for himself and 250l. for each of his two children. Pearson & Son were found liable in the expenses of the plaintiff and of Symington & Sons. His Lordship said that he was satisfied that there was no evidence to saddle Symington & Sons with any responsibility for the system of shunting.

Delivery of Heliotropin.—Mr. Justice Bailhache, in the Commercial Court on November 28, commenced the hearing of an action brought by Lucders & Co., of New York, to recover damages for the non-delivery of 25 cwt. of heliotropin from Cooke, Tweedale & Co., of Corporation Street, Manchester. Defendants denied liability, pleading they were unable to carry out their contract owing to the Government's prohibition. Prior to the war nearly the whole of the manufacture of heliotropine was confined to Germany, but this chemical is now made in Switzerland, Holland, and this country. When the goods ought to have been shipped c.i.f. for New York, defendants alleged that they were unable to ship because the Government had prohibited the export. It appeared that defendants had applied to the War Trade Department, who had refused permission to them to ship the goods. Defendants still maintained that they were not liable to carry out their contract because of this refusal. Mr. E. J. Parry, F.I.C., analytical and consulting chemist, stated that heliotropin was well known to chemists and the commercial world generally. Its manufacture from safrol was given in all the text-books of European countries. It was not made from coal-tar, and was not prohibited from export under the Government Order. His Lordship, in giving judgment on November 29, said the contract was admitted, as was the non-delivery. Defendants said it was not delivered because of the prohibition of export by the British Government. Heliotropin not being on the prohibited list, there was no occasion for the defendants to make the application to the War Trade Committee. The refusal of the Government to export it was obviously a mistake, as they proceeded on the assumption that heliotropin came within the prohibitions, but whether the defendants' request was submitted to the Government's chemical advisers he could not say. The Government were under a misapprehension, but he was not able to say the defendants put any pressure on the Government further than the two applications to be allowed to export. In the absence of direct evidence by the defendants that they were honestly in doubt as to the composition of heliotropin, and owing to the fact that they had not disclosed all their documents till the hearing of the trial, he should find for plaintiffs, and award them 224l. damages. Judgment accordingly, with costs.

New Companies and Company News.

F.C. means Private Company and R.O. Registered Office.

LOYD DRUG CO., LTD. (P.C.).—Capital 1,000l. Objects: To carry on business as chemists, druggists, drysalters, etc. R.O., Danes Inn House, 265 Strand, London, W.C. 2.

CROW-TREES CHEMICAL CO., LTD. (P.C.).—Capital 1,000l. Objects: To carry on business as manufacturers of and dealers in lanoline, soap, glycerin distillers, etc. R.O., Cleckheaton.

LEWIS & BURROWS, LTD.—The report of the directors for the twelve months ending September 30, 1917, states that the year has proved very prosperous, and the company is enabled to pay an increased dividend for the year upon the ordinary share capital. The directors have set aside 1,000l. to be added to the depreciation reserve account. A sum of 75l. 2s. 5d. has been devoted to writing down the value of the India stock, so that it now appears in the balance-sheet at the market value on September 30 last. The net balance available is 8,306l. 6s. 7d., out of which it is proposed to place 2,000l. to general reserve, a further 1,000l. to depreciation reserve account, also to pay a dividend on the preference shares at the rate of 6 per cent. per annum (less income-tax), and at the same rate upon the ordinary shares, leaving a balance of 507l. 10s. 7d. to be carried forward. During the year the directors took advantage of a favourable opportunity to dispose of the lease of their St. James' Street premises; they have renewed the lease of the premises at 6 Abney Park Terrace. Towards the end of July a fire—the first in the experience of the company—occurred at the Gloucester Road branch. The premises have been restored by the insurance companies interested, and are now re-opened for business. The company will receive compensation for loss of profits during the period of compulsory closing. During the year the following changes in the directorate have taken place: Mr. F. A. K. Hounsell has retired from the board, and the directors invited Mr. E. W. Gough, their general manager, to become managing director, with a seat upon the board, in recognition of his continuous service of twenty-one years. Mr. Deputy J. R. Brough retires by rotation.

Marriages.

JONES.—MORGAN.—At Sion C.M. Church, Crickieth, on November 28, by the Rev. A. T. Jones, T. Lloyd Jones, Pwlheli, to S. M. Morgan, only daughter of Mr. David Morgan, chemist, Talybont, Aberystwyth.

REES.—HEWETT.—At the Welsh Baptist Church, Castle Street, London, W., on November 15, by the Rev. Francis Knoyle, B.A., and the Rev. R. B. Porter, David A. Rees, Ph.C., F.S.M.C., Pharmacists' V.T.C., to Alice, daughter of Mr. Richard Hewett, Old Catton, Norwich.

Deaths.

DODD.—At Burton Grange, Cheshunt, Herts, on December 4, Mr. William Ralph Dodd, Ph.C., director of Allen & Hanburys, Ltd., Bethnal Green. The death of Mr. Dodd removes one of the leading personalities of the



MR. W. R. DODD.

Metropolitan drug-trade, he having been identified with retail and wholesale pharmacy for upwards of forty-seven years, most of which period was spent with Allen & Hanburys, Ltd. He entered the drug-trade in 1870, serving a five years' apprenticeship with the late Mr. F. Warren Smith, of Market Drayton. The business, like many others in market towns, was more or less of a departmental store or Italian warehouse, and the work was accompanied with much drudgery, the dispensing of a prescription being rare. Mr. Dodd was persuaded to stay a year over his apprenticeship, afterwards accepting a situation with Giles, Schacht & Co., Clifton, Bristol, where he gained most of his pharmaceutical experience, which enabled him to pass the Minor and Major examinations, taking the latter in 1878. Subsequently he had a period of experience in the West-end, and was then offered a position in Allen & Hanburys, Ltd. Since that time Mr. Dodd had had much to do with the progress of the business, particularly in the development and success of the well-known Allenburys foods for infants and other proprietary goods. Mr. Dodd leaves two sons, both of whom are on active service. The funeral takes place at Cheshunt at two o'clock on Saturday.

GELLING.—At Ballavagher, Marown, Isle of Man, on November 30, Mr. John Alexander Gelling, chemist and druggist, aged fifty-one. Mr. Gelling opened in business about twenty-five years ago, in partnership with a brother, in Douglas, where his apprenticeship had been served with Mr. A. C. Paterson. Latterly he had been obliged, through lack of qualified assistance, to close two of his three phar-

macies. He was a useful member of the Douglas Town Council and a man of great personal charm, and will be much missed.

GIBSON.—At 74 Ashley Road, Loughborough, on November 25, Mr. Reuben Leonard Gibson, chemist and druggist, aged seventy-two.

ROBINSON.—At 129 Brighton Street, Seacombe, on November 26, Mr. Richard Frederick William Robinson, chemist and druggist, aged fifty-nine. Mr. Robinson occupied the same premises for over thirty years, and was a prominent figure in local affairs. He held various offices among the Volunteers, but declined municipal honours. As Vice-President of the Wallace Chemists' Association he was highly esteemed for his wide knowledge and tactful judgment. Musical and athletic abilities above the average were also among his gifts. The funeral took place on November 30, an escort of Volunteers taking part in the procession. Among those present were Messrs. Wellings (Evans Sons Lescher & Webb, Ltd.) and H. Nixon (Ayrton, Saunders & Co., Ltd.).

WEISS.—At 167 Willesden Lane, London, N.W., on December 2, after a short illness, Mr. Harry Maurice Weiss, eldest son of Mr. Samuel Weiss (Samuel Weiss & Co., merchants, 27 Mincing Lane, E.C.), aged thirty-one.

Died on Service.

BURNELL.—Private F. J. Burnell has been killed in action in France. Prior to enlistment he was with Boots, Ltd., at the Aylesbury branch.

CUNNINGHAM.—Second-Lieutenant Joseph Cunningham, R.F.C., has been killed in an aeroplane accident in England. Prior to joining the Forces Lieutenant Cunningham was a chemist in Belfast.

DAVIES.—Private Alan Cunliffe Davies, King's Own (Royal Lancaster Regiment), has died of wounds in France. Private Davies, who has left a widow, was in civil life a chemist and druggist in business at Warbreck Road, Blackpool, in which town his apprenticeship had been served with Mr. J. W. Huddart, chemist and druggist, Lytham Road.

GLASGOW.—Private Robert Archibald Glasgow, Lancashire Fusiliers, has died in hospital in France, of gunshot-wounds received in action, aged twenty. Prior to hostilities he was with Mr. J. H. Shimwell, chemist and druggist, Market Square, Lytham.

HERSANT.—Private William Hersant was killed in action in France on November 10, aged twenty-three. His apprenticeship in pharmacy was served with his father, Mr. Milton Hersant, chemist and druggist, Archway Road, London, N. He was wounded on service in September.

JONES.—At Glasgow, on November 30, Private David Jones, son of Mr. David Jones, chemist and druggist, Llanfyllin.

PREECE.—Rifleman Harold Wills Preece, Rifle Brigade, is reported killed in action on September 20, aged twenty-eight. Rifleman Preece, who was the son of Mr. Preece (representing Thos. Hodgkinson, Prestons & King), was for some years with Mr. J. W. Quibell, chemist and druggist, Golders Green, London, N.W.

SHERBORNE.—Private Thomas Kinsman Sherborne, London Rifle Brigade, has died in France of wounds received while acting as stretcher-bearer, aged nineteen. He was the son of Mr. T. Sherborne (Sherborne & Co., Truss Makers, Honor Oak Park, London, S.E.).

TURNER.—Private Frank Turner, Loyal North Lancashire Regiment, died of wounds in hospital in France, on November 24, aged twenty-six. Private Turner enlisted from the staff of R. Parkinson & Sons, wholesale chemists, Burnley, where he had been from boyhood.

WEISS.—Killed in action on November 22, Second-Lieutenant Edward Stanley Weiss, R.F.C., youngest son of Mr. Samuel Weiss (Samuel Weiss & Co., merchants, 27 Mincing Lane, E.C.), aged twenty.

Gazette.

Partnerships Dissolved.

EVANS, N., CHRISTIAN, H., WILLIAMS, F. G., and ASHWORTH, C. F., 7-11 Pump Street, Holt Town, Manchester, chemical and dye manufacturers, under the style of the Holt Town Dye and Chemical Works.

LLOYD, A., and WICKHAM, R. J., 161 Gower Street, London, carrying on business as electro-medical apparatus manufacturers, under the style of Electrical Medical Manufacturing Co.

Insurance Act Dispensing.

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bournemouth.—At the meeting of the Insurance Committee on November 26, the Clerk reported that, as a result of his interview with the Commissioners, he believed a further 10*l.* would be available towards the cost of pricing prescriptions. The Panel Committee wrote that no action need be taken in regard to glycerin in prescriptions, and that the Pharmaceutical Committee should make arrangements respecting the dispensing of preparations containing sugar. A letter from the latter Committee stated that steps were being taken to reduce the amount of sugar in medicines. It was agreed to pay the balance of chemists' accounts as soon as the necessary figures were received from the Pricing Bureau. The accounts paid in respect to the drug fund since the last meeting amounted to 238*l.* 1*s.* 6*d.* With reference to the application of a chemist for the exemption of his apprentice from military service, the Committee approved the action of the Medical Benefit Sub-Committee in recommending the employer to appeal to the local Military Tribunal, as the Committee had no power to obtain the exemption asked for. The Panel Committee is willing to accept for the whole year the ratio of 86.81, which the South-Western Joint Pricing Committee find to be that which the new Tariff prices bear to Article 5 Tariff prices for the first quarter of the current year.

Great Yarmouth.—At the meeting of the Insurance Committee on November 30, it was reported that the Insurance Commissioners had agreed to an additional allowance for 1918 of 0.45*d.* per prescription, which, with the 0.3*d.* allowance already granted, will constitute an addition of 0.75*d.* per prescription on account of war conditions, and will be subject to a satisfactory and adequate service being given. The chemists on the panel were notified accordingly.

Manchester.—A meeting of Manchester panel chemists was held at 65 Market Street on November 28, Mr. Joseph Bell presiding, when Mr. F. W. Bates, J.P. (Chairman of the Pharmaceutical Committee), gave a *résumé* of the Tariff negotiations in London, emphasising the fact that the concessions obtained from the Commissioners for 1917 and 1918 amounted to over 80,000*l.*, equal to an addition of 30 per cent. to the dispensing-fees. The Secretary (Mr. A. Hershberg) having supplemented Mr. Bates's summary, it was resolved that the terms offered for dispensing be accepted, and the Pharmaceutical Committee received a vote of thanks for its services. Mr. Bates then dealt with the "War Emergency Formulary," copies of which had been received, when an animated discussion ensued, and various formulæ were severely criticised as unworkable and non-pharmaceutical—that for "Glycerin. boracis, W.E.F.," creating much amusement.

Middlesex.—The Insurance Committee met at the Guildhall, Westminster, on December 3, Mr. W. S. Glyn-Jones, M.P., presiding, when payment was ordered of accounts amounting to 8,926*l.* 16*s.* Among the items were 2,990*l.* 1*s.* 7*d.* to chemists, 299*l.* 1*s.* 11*d.* to doctors on account of drugs, and 246*l.* to the Joint Pricing Committee. The Panel and Pharmaceutical Committees have agreed that in rural areas practitioners supplying medicine shall be paid at the flat rate of 7*d.* per prescription, and this arrangement the Committee now approved. The terms of the new Tariff have been communicated to all the panel chemists. The Commissioners wrote that the present procedure under which the constituent Committees make contributions to the Joint (Pricing of Prescriptions) Committee proves inconvenient in practice, and suggesting that the Joint Committee obtain monthly advances direct from the Commissioners, and the Committee accepted the suggestion.

Notts.—The Pharmaceutical Committee met the panel chemists at Mansfield on November 28, Mr. Adams presiding. The 1918 Tariff was thoroughly discussed, and Mr. Waring gave information on many points of the interview with the Commissioners. It was unanimously resolved to accept the Tariff, and to recommend the other chemists on the panel to ensure a satisfactory pharmaceutical service as hitherto. The meeting further expressed its satisfaction at the work done by the Executive Committee, and particularly the members of the deputation to the Commissioners. It was resolved that the War Emergency Formulary come into force at a date fixed by the Insurance Committee, and that a copy of the Formulary be sent to all panel chemists.

Portsmouth.—The number of scripts dispensed by the Portsmouth panel chemists during September was 7,420, costing 206*l.* 15*s.*, or an average of 6.58*d.* per script.—At a meeting of the Insurance Committee on November 29, it was reported that the Commissioners had notified certain alterations and amendments to be made in the terms of service for 1918—viz., the extension to poison-bottles of the present deposit system applicable to ordinary bottles; the substitution for the existing dispensing-fee scale of a new scale which provides, *inter alia*, for an additional fee per prescription on account of war conditions of 0.75*d.* (including the 0.3*d.* allowance previously sanctioned for 1916 and 1917); the amendment of the existing Tariff with reference to certain plasters, etc., and certain waters, decoctions, and infusions. The necessary notices had been issued to chemists on the panel.

Sheffield.—The Insurance Committee met at the Town Hall on December 5, when Mr. J. T. Appleton's motion recommending alterations in the Medical Benefit Regulations, 1913, dealing with rural areas was carried. The Panel and Pharmaceutical Committees are to be asked to consent to the use of the "War Emergency Formulary" for substitutes for sugar and glycerin. In response to a letter from the Pharmaceutical Committee, it was decided to instruct the Pricing Bureau that all liniments are to be priced on the basis of the rectified variety, unless specially indicated to the contrary, until the new agreement comes into force. The Committee decided to express general approval of the Bill for the amendment of the National Insurance Acts. The estimate of the Committee's share of the expenses of the N.E. Midland Pricing Bureau (450*l.*) has been exceeded by 46*l.*, and the expected grant from the Commissioners towards the cost of pricing is 200*l.* It was decided to submit an estimate for 500*l.* for pricing during 1918. The following payments were ordered: Emergency dispensing and first dressings, 146*l.* 7*s.* 8*d.*; doctors' dispensing at capitation-fee, 112*l.* 15*s.* 8*d.*; balance of Panel Committee's administrative expenses, 124*l.* 17*s.* 10*d.*; balance of chemists' accounts for September and payment on account for October, 745*l.* 2*s.* 5*d.*

Southport.—At a meeting of the Insurance Committee last week, Mr. D. Richards, in moving the minutes of the Medical Benefit Sub-Committee, referred to the withdrawal from the British Pharmacopoeia of most of the preparations containing glycerin and sugar. The British Medical Association and the Pharmaceutical Society had agreed upon a revised list in which the sugar and glycerin preparations had either been deleted or replaced by new alternative formulæ. The Sub-Committee had passed a resolution recording its opinion that the comparatively small amount of sugar and glycerin used for medicinal purposes did not justify the drastic proposals named, which were calculated to affect injuriously the interests of sick and invalid persons, and it entered a strong protest against the proposals. Mr. Richards said the Committee felt most strongly that it was hardly fair to withdraw sugar from being used in medicine whilst so much was allowed to go into breweries, and the making of sweets, aerated waters, etc. As a matter of fact, nothing was said about glycerin, though the two were bracketed together in the resolution.—The Insurance Committee's cash summary for the last financial year shows that 8,701*l.* was received from the Insurance Commissioners. There was paid out: On Benefit Administration Account, 438*l.*; Sanatorium Benefit Fund, 672*l.*; Practitioners' Fund, 6,469*l.*; Drug Fund, 1,401*l.*; and Temporary Residents' Fund, 72*l.*

Yorkshire (West Riding).—The Pharmaceutical Committee met at Leeds on November 28, when general satisfaction was expressed with the new dispensing terms, and all West Riding chemists were recommended to remain on the panel. Thanks were accorded to the Conference delegates and the L.A.E. The Insurance Committee's circular proposing the adoption of the W.E.F. for conserving glycerin and sugar, and suggesting certain alterations in the West Riding Formulary, had already been approved by the Panel Committee, and was accepted by the Pharmaceutical Committee. It was decided to support the Inquiries Section of the Central Checking Bureau. Mr. A. R. Briggs (Horbury), in response to the appeal of the Committee, consented to continue to represent the chemists on the Medical Benefit Sub-Committee. The Secretary gave a synopsis of the work of the Central Checking Bureau, and general approval was expressed of the manner in which the work is carried out.

DAMSONS yield a rich red colour, and may be used in such syrups as chemical food.

LIQUID PARAFFIN, if not sufficiently purified, causes a rash of a pseudo-erysipelatous nature when used as a wound-dressing or internally.—Dr. Nesbitt Burns.

Personalities.

BAILIE R. A. McIVOR, chemist and druggist, is the new Provost of Eyemouth.

MR. E. H. BARRETT, Ph.C., Colchester, has been appointed to the judicial authority for the borough under the Lunacy Acts.

MR. W. AULT (Booker Bros.), The Pharmacy, Georgetown, Demerara, is at present in this country, and can be addressed c/o Booker Bros. & Co., Ltd., 21 Mincing Lane, London, E.C.

MISS DORIS F. BARFOOT, daughter of Mr. J. R. D. Barfoot, chemist and druggist and optician, West Bars, Chesterfield, has passed the B.Sc. examination of the London University in the First Class. Miss Barfoot has been a student at Reading University College.

WOR. BRO. HENRY J. DALGLEISH, P.P.G.D. Devonshire, was, at a meeting of the Grand Lodgo of Freemasons held at Great Queen Street, London, W.C., on December 5, elected one of the Twelve Members of the Board of Benevolence for the eighth year in succession. Mr. Dalglish is well known to the trade by reason of his many years "on the road."

MR. J. C. MARR, the newly elected President of the Doncaster Association of Pharmacists, served his apprenticeship with the late Mr. Hammond, Hull. He has had experience in pharmacy in London, Grimsby, Sheffield, and Thorne, qualified in 1888 and settled at Wheatly, a suburb of Doncaster, sixteen years ago. He has been an enthusiastic member of the Association since its formation in 1909, and his elevation to the Presidential chair is extremely popular.

THE NEW SECRETARY of the Dewsbury Pharmacists' Association is Mr. G. Heughan, chemist and druggist. He was born at Dalbeattie, Scotland, and served his apprenticeship with Mr. R. J. Shinnan, of that town. Later he became assistant to Mr. G. Mackie, Renfield Street, Glasgow, and remained with him for two years, after which he studied at the Glasgow School of Pharmacy, and qualified at Edinburgh in 1909. After doing "locum" work in the West of Scotland for several chemists, Mr. Heughan was for eighteen months with Mr. F. Rogers, Oxford Street, London, W. He later spent two years in the drug department of the Army and Navy Stores, Victoria Street, S.W. Following a few months with Mr. Dean at Bury, Lancashire, he purchased in



MR. G. HEUGHAN.

1913 the old-established pharmacy at 25 Northgate, Dewsbury, where he carries on a successful business.

New Books.

Year Book of Pharmacy, Comprising Abstracts of Papers Relating to Pharmacy, Materia Medica, and Chemistry, with the Transactions of the British Pharmaceutical Conference at its Fifty-fourth Annual Meeting, held in London, July 11, 1917. 8½ x 5½ in. Pp. 458. 7s. 6d. (J. & A. Churchill, 7 Great Marlborough Street, London.) [The editors are Mr. J. O. Braithwaite and Mr. Reginald R. Bennett, while Mr. Thos. Stephenson has compiled the new remedies section. The following is a synopsis of the contents, with an indication of the space devoted to the subjects: Alkaloids (18 pages); animal products (9 pages); clinical tests (22 pages); colouring-matters (11 pages); essential oils (12 pages); fats, fixed oils, and waxes (12 pages); glucosides, sugars, and ferments (8 pages); gums, oleoresins, and resins (4 pages); inorganic chemistry (19 pages); organic chemistry, unclassified (36 pages); plant analysis (9 pages); new remedies (15 pages); new applications of remedies (17 pages); pharmacognosy (23 pages); pharmacology and therapeutics (22 pages); dispensing (15 pages); galenical pharmacy (17 pages); Pharmacopoeia revision notes (24 pages); notes and formulæ (58 pages). The other matters are the research list, transactions of the Conference, and list of members. The list of honorary members would be the better for the removal of the name of the only German which it contains.]

Trade Notes.

CHEMICALS IN PRIZE.—The Admiralty Marshal announces in the Coloured Supplement the sale by tender of a large quantity of codeine and codeine phosphate.

THE ENGLISH DRUG AND CHEMICAL WORKS, LTD., are now making a good variety of fine chemicals, some of them being otherwise difficult to obtain of home manufacture.

CHRISTMAS CLOSING.—The following houses will close for business on the dates mentioned: F. Newbery & Sons, Ltd., December 24 to 31; A. H. Cox & Co., Ltd., December 22 to 29.

FIRST-AID OUTFITS.—A special branch of T. J. Smith & Nephew, Ltd., Chapel Street, Hull, deals with the outfits required to conform to the new Factory and Workshop Welfare Order.

PERALBINE DUSTING-POWDER is the money-making line which is advertised in this number by E. T. Pearson & Co., Ltd., manufacturing chemists, Mitcham. It is an oxygen powder.

VITAMOGEN should not be confused with the sanatogen type of food. The distinction is emphasised in the advertisement in this issue of Vitamogen, Ltd., and other points are given regarding the origin of this food.

PRICE-ALTERATIONS.—A. Rowland & Sons, 67 Hatton Garden, London, E.C., announce in our advertising pages that the wholesale prices of Macassar oil and Kalydor will be raised on January 1. The advertised retail prices of Kalydor in future will be 2s. 6d., 5s., and 9s. 6d.

WAR-BOND WEEK.—Several of our advertisers this week devote their space to recommendations to purchase National War Bonds. The way in which the subject is introduced is very interesting—e.g., the advertisements of Burroughs Wellcome & Co., Joseph Beecham, Ltd., R. W. Greeff & Co., and the American Commerce Co., Ltd.

B.D.H. CHEMICAL DEPARTMENT.—Some time ago we were interested in inspecting the new premises which The British Drug Houses, Ltd., were devoting to the manufacture of fine chemicals. We learn that development is still proceeding. Recent appointments include Mr. E. de Barry Barnett, B.Sc., Mr. J. Tavroges, B.Sc., and Miss E. M. Wright, B.Sc. Mr. Barnett, who is the author of the standard work on "Preparation of Organic Compounds," has had good works' experience in the manufacture of chemicals. The other two chemists appeared in the B.Sc. Honours List last week, Mr. Tavroges being in the first class. The manufacture of pure chemical reagents which was taken up on the outbreak of war is being developed further, together with the manufacture of organic synthetics. The company is sending out a very useful list of "Controlled" materials which the trade will appreciate. The list contains particulars regarding some twenty groups and the name and address of the Department exercising control. The notes given are also a useful feature.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- | | |
|---------------------------------|-------------------------------|
| 201/14. Howard Hill's wax. | 204/56. "Lu-Ku" for catarrh = |
| 201/65. "Thymogen." | makers. |
| 201/60. Anlyas capsules. | 200/2. "Perfect" enema. |
| 201/61. "Aretone" scalp-lotion. | |

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

- | | |
|--------------------------------|---------------------------------|
| Aconitine, 186/37 | Cadmium sulphate, 186/37 |
| "Acridavine," 178/69 | Calcium phosphate, 186/37 |
| Allen's cough balsam, 190/21 | "Camphylene," 187/72 |
| "Amami" shampoo-powders, | Carbonate of iron, 186/37 |
| 181/58 | Carnrick's specialities, 176/69 |
| Beeswax, 139/23 | and 195/31 |
| Belloco's charcoal, 147/46 | "Dayfield" body-shield, 162/39 |
| Bengue's ethyl chloride, 200/2 | Dent's gun, 189/62 |
| Bipp, 192/20 | "Dermatone Soap," 176/73 |
| Bismuth, 164/6 | "Diabetifuge" (Parraudin), |
| "Bitrate of Tar," 199/5 | 196/2 |
| Cachets (empty) French makers, | "Diamond" dyes, 166/42 |
| 196/22 | Edgar's lotion, 151/36 |
| Cacodylate of guaiacol, 186/37 | Egg-powder, 164/21 |

Observations and Reflections.

By Xrayser II.

The Initials W.E.F.

are officially announced to be, after all, not sufficiently distinctive for use in all cases, and when there is any liability to error prescribers are asked to add "Cod." to them. "C.A." (Codex Addendum) would have suited better with the prescriber's habit of extreme abbreviation; "Glyc. Bor. W.E.F.Cod." is a formidable fence for a doctor in a hurry to negotiate; he will hardly be able to "clear the five-barred syllables at a spring." There is another aspect of this business which sets the whole in a disastrous light. The Society has long been agitating, and rightly so, for a direct voice in the preparation of our national Pharmacopœia. This ill-starred attempt to usurp official authority does not promise well for the success of that endeavour. Already the General Medical Council is envisaging the necessity of alterations in the Addendum, and pharmacists of independent mind have not waited for "further experience" before suggesting "modifications of the formulæ." For its size this publication seems as open to criticism as any Pharmacopœia.

When Doctors Differ,

who shall decide? Mr. Sargeant tells the Liverpool Association that "as regards so-called trade matters, the Society can deal with all questions directly affecting the business of a pharmacist." Next day Mr. Currie says at Sheffield that the Society, not being a trade-union, does not exist for "the support of trade-interests," and that no such interpretation "can be read into the Charter." It is not for me to attempt a reconciliation of these two voices, but "the protection of those who carry on the business of chemists and druggists" was certainly one of the avowed objects of the Charter. Perhaps they differ in sound only, for Mr. Sargeant appears to hold that our trade matters are merely "so called," and not actually what the term imports, while Mr. Currie stretches the phrase "professional interests" so as to include a good deal that is professional by courtesy only. There is one topic, however, on which these gentlemen speak with the same voice: they agree in regarding the Progressive Pharmacy Club as a disloyal Association and its leaders as "unfair" and "dishonest." Partisanship, like poverty, makes strange bedfellows.

The Ladies

who addressed the meeting of the London South-Western Association on November 20 gave us, between them, a complete picture of the ideal business man, Miss Buchanan admirably supplementing Miss Borrowman's capital paper. The first thing necessary for any kind of business success is common sense, trained to deal with business conditions. Common sense may be defined as the faculty by which we intuitively apprehend facts and the significance of facts; imagination is essentially the same faculty extended into the spiritual sphere. Without it common sense is apt to be short-sighted and timid, seeing only what is immediately obvious, and fearing to venture beyond it; imagination sees the possibilities of the future and emboldens us to translate them into the opportunities of the present. The South-Western must indeed have had an inspiring evening: we ought to have these two ladies on the Council; add to their intellectual equipment the qualities we attribute to their sex, and we have in them just the driving force we want. "You see, Sir" (said the groom in "Punch"), "ladies takes it out of a hoss so; they gets on him, and they says, 'My eyes! he's a hoss, and he must go.'"

The Chelsea Pensioner

and its origin were discussed in three consecutive numbers of THE CHEMIST AND DRUGGIST for June 1896. The story of the recipe having been given by the inventor, a Chelsea pensioner, to Lord Amherst or Lord Anson (both names have been mentioned) in exchange for 300*l.* down and an annuity of 20*l.* was probably an advertising device; at all events, the surviving

descendants of these two noblemen (to whom the Editor applied for information) knew nothing about it, nor did the Secretary of the Chelsea Hospital or the oldest living doctor there. The formula is given in Gray's Supplement (1821) and in Rennie, and there is a similar one, though it differs a little, in a Dutch Formulary of 1824. Naturally Mr. Wootton retold the story of his researches in the "Chronicles."

James Augustus Cotter Morison,

one of the founders and proprietors of the "Fortnightly Review," of several of whose books I have a lively recollection, was so well-known a writer that I am surprised to hear of his identity having been in doubt in so enlightened a city as Glasgow. That he was the son of James Morison, the Hygeist, as he styled himself, of the British College of Health in the Euston Road, is noted in the easily accessible "Dictionary of National Biography." James Morison seems to have had an attraction for literary men. Matthew Arnold poked fun at him in his essay on "The Function of Criticism." He referred to the College as "that building with the lion and the statue of the Goddess Hygeia before it; at least I am sure about the lion, though I am not absolutely certain about the Goddess Hygeia"; and went on to say that although the building might do credit to Dr. Morrison (*sic*) it fell rather short of one's idea of what a British College of Health ought to be. I remember the time when Morison's Pills were among the most popular of patents. If my memory serves me, the dose was a large one, and the profits to the retailer commensurate; but that was in the good old times now departed.

General Medical Council.

THE penal case against Mr. Reginald Nitch Smith, which was proceeding as we closed for press last week (p. 40), seemed to take a more favourable turn on November 29, owing to the confession of the doctor's confidential assistant that she had on her own account let Mrs. Platt have heroin. The Council, however, came to the conclusion that Mr. Smith had been guilty of infamous conduct in a professional respect, and ordered his name to be erased from the Medical Register. Another case was heard the same day. On November 30 other cases were heard, and then, in great haste, various reports were disposed of. These included the

REPORT OF THE PHARMACOPOEIA COMMITTEE.

"The number of copies of the British Pharmacopœia, 1914, which were sold by the publishers between May 20 and November 24, 1917, was 1,220. The number sold in the year ending November 24 was 2,519. The total number sold since the date of publication is thus 29,354. A third issue of 5,000 copies has been prepared; in this issue a misprint detected last year is corrected. In pursuance of the power delegated to the Committee by the Council last May, further communications on the subject of glycerin and sugar were made to the Home Secretary's Committee and other authorities. It appeared to be necessary in the national interest that immediate steps should be taken to discourage the use of these substances in pharmacy, and the Committee agreed unanimously to the temporary withdrawal from the Pharmacopœia of the official directions for their use in the compounding of certain preparations. The proper notices for the alteration and amendment of the British Pharmacopœia, 1914, were accordingly published on behalf of the Council in the Gazette of London, Edinburgh, and Dublin on July 27, 1917, and are now operative. A leaflet setting forth the terms of the Gazette notice has been inserted in each copy of the new issue of the Pharmacopœia. The British Medical Association has forwarded a resolution passed by its annual representative meeting in July 1917, to the effect that, in the opinion of the Association, the general use of the metric system in the teaching of dispensing, prescribing, and treatment would be beneficial to the scientific interests of the medical profession. The Pharmacopœia Committee desire to express their concurrence with this opinion. The Pharmaceutical Society of Great Britain has published a series of unofficial formulæ for certain preparations which have hitherto contained glycerin or sugar. These may usefully be adopted by prescribers in place of the formulæ that have been temporarily withdrawn. It is desirable that uniformity should, as far as possible, be preserved in the compounding of medicines which may still be ordered or dispensed under the names that were formerly official. The action of the Pharmaceutical Society in the present emergency is thus timely and useful."

The report of the Dental Committee was postponed in view of the appointment of the Departmental Committee on the Dentists Act. The business of the session ended at four o'clock.

Peroxide of Hydrogen

(H₂O₂)

KINGZETT'S PRESERVED QUALITY.

INVALUABLE

1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
6. For removing fruit stains from linen.
7. As an air purifier (by spray), &c.

SOLD IN 10 VOLUMES STRENGTH, AND PUT UP IN

16-oz. bottles, retailing at 1/6 each.

8	"	"	1/-
4	"	"	9d.

Also in Bulk.

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The "SANITAS" Co., Ltd., Limehouse, London, E. 14.

BRITISH ABSOLUTE ALCOHOL

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LAMBETH, S.E. 11

REYNOLDS & BRANSON, LTD.,

Grand Prix LEEDS. Turin 1911.

PHARMACEUTICAL PREPARATIONS.

Tinctures, Ointments, Pills, Tablets, Suppositories.
Standardised and Clinically Tested Galenicals, &c.

SURGICAL INSTRUMENTS.

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Index Folio 1042

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Editorial Articles.

Price-lists Prohibition.

It will be remembered that the Paper Restriction Order, which was made under Regulation 23J of the Defence of the Realm Act last March, prohibited the delivery of any "tradesman's catalogue or price-list or any circular unless a request has been made by or on behalf of that person in writing for the despatch or delivery thereof." We have no doubt that this provision resulted in a large saving of paper, and it has, so far as we are aware, worked well. In the Paper Restriction (Posters and Circulars) Consolidation Order which was issued on October 22, and was referred to in a recent number of this journal, this useful exception to the issue of advertisements has been swept away, with the consequence that after January 31, 1918, it will be illegal for wholesale houses to send out catalogues and price-lists in the manner hitherto adopted. It should be stated that the expression "advertising circular" in the Order includes:

Advertisements (other than posters), issued gratuitously and printed or written on paper, cardboard, or other similar material; tradesmen's catalogues and price-lists; advertising sheets or periodicals in the form of a newspaper or magazine, whether registered as a newspaper or not, which are distributed gratuitously, and of which, advertising is the main and not merely an ancillary purpose, diaries, almanacks and calendars issued gratuitously and containing advertising matter.

Posters are dealt with separately in the Order, the regulations being very similar to what they were in the first Order. The section which prohibits the sending out of advertising circulars is thus worded:

Save as is hereinafter provided no person shall issue or despatch any advertising circular, either by post, by hand, in the form of inset or otherwise, whether the same is issued or despatched by a trader to a trader, or in response to a request in writing or otherwise.

There is nothing following that exempts price-lists from the provisions of the Order after January 31, the temporary permit up to that date referring to the issue of a reduced weight of circulars as compared with the previous year. We had expected that the Board of Trade would have issued some general licence before this, and as it has not done so we call attention to the serious position that will arise next year. The drug-trade especially during the war has learned to appreciate the study of prices owing to the constant changes in value, but what is to happen if the wholesale houses are not allowed to send out their price-lists we cannot predict. Retailers will require to order with eyes shut and mouth open, or make direct inquiries, wasting time and postage at a time when economy is being preached by the Government. It may be that the wholesale houses will get over the difficulty by making a charge for their lists, a practice calculated to cause much friction between wholesaler and retailer. We have written to the Royal Commission on Paper to try and obtain information as to the possibility of a general licence, but it is time the houses concerned considered the matter in view of eventualities. The official mind moves slowly, it is true, but in this case it would be well not to rely upon an exemption being issued.

Copper-sulphate Market.

SIMILAR to many other industries, that of copper sulphate has been seriously dislocated through war conditions. At the beginning of hostilities the wholesale requisitions of raw copper inevitably necessitated by the big requirements for munitions by the belligerents quickly began to make themselves felt, and this soon led to restrictions being imposed on the industrial uses of the metal under Government control. As the war developed manufacturers' operations in this country have had to be curtailed considerably, especially since the drastic regulations were enforced towards the close of last year, and in view of the consequent embargo placed upon the exports of sulphate of copper these have naturally declined steadily to approximately 50 per cent. of the normal. This decline is indicated by the following official returns of exports from the United Kingdom for the last four years :

Monthly Exports in Tons and Average Monthly Prices of Copper Sulphate and Metallic Copper.

	1914			1915			1916			1917		
	Tons	Copper Sulphate	Standard Copper	Tons	Copper Sulphate	Standard Copper	Tons	Copper Sulphate	Standard Copper	Tons	Copper Sulphate	Standard Copper
		£ s. d.	£ s. d.		£ s. d.	£ s. d.		£ s. d.	£ s. d.		£ s. d.	£ s. d.
January...	3,014	22 0 0	61 8 0	5,213	21 5 0	60 17 7	5,380	45 0 0	88 2 11	4,137	64 0 0	131 16 9
February...	7,464	22 5 0	65 8 5	3,118	23 15 0	63 12 6	3,037	46 0 0	102 13 1	2,044	62 0 0	138 5 9
March...	13,608	22 0 0	64 8 1	10,927	27 5 0	66 5 5	1,830	48 0 0	106 19 11	3,919	61 10 0	137 1 2
April...	18,372	21 10 0	64 17 4	15,037	28 5 0	75 3 5	3,974	51 15 0	124 4 0	2,816	62 0 0	134 1 10
May...	14,539	21 5 0	63 5 10	11,091	28 10 0	77 14 3	5,309	51 15 0	135 9 11	5,840	62 10 0	130 5 0
June...	5,268	20 5 0	61 9 3	5,520	28 10 0	82 13 8	5,048	50 10 0	112 17 8	4,197	62 0 0	130 5 0
July...	1,805	20 0 0	60 13 0	2,655	28 0 0	76 1 11	2,747	50 0 0	95 0 9	3,576	60 0 0	128 13 2
August...	374	19 15 0	57 11 6	1,424	27 10 0	68 15 1	1,772	48 0 0	110 8 3	1,678	61 0 0	122 10 5
September...	300	19 10 0	52 16 4	1,302	27 0 0	69 1 2	244	50 10 0	114 1 5	3,040	62 10 0	117 15 0
October...	407	19 10 0	50 7 2	1,667	27 15 0	72 13 7	2,540	53 10 0	122 10 0	3,287	65 0 0	110 5 0
November...	739	19 5 0	52 11 5	4,595	39 0 0	77 16 10	3,544	58 10 0	134 18 2	—	—	—
December...	1,994	19 5 0	56 18 5	2,661	44 0 0	80 17 10	3,387	64 0 0	145 9 2	—	—	—

The total exports for ten months (Jan.-Oct.) for five years were as follows : 1913, 74,050 ; 1914, 65,157 ; 1915, 57,954 ; 1916, 31,881 ; 1917, 34,534.

The fact deserves notice, however, that the last monthly returns at 3,287 tons were abnormally heavy, being the largest October figures seen for several years, and the total for the twelve months of 1917 appears likely to show a notable increase against the previous year, although the tonnage exported in normal times is usually small at this period of year. The recent exports were chiefly for France, following upon special arrangements arrived at between the French and British Governments in order to meet urgent needs. There is no doubt that further facilities will be afforded in that direction, although there has been somewhat of a lull lately in the issuing of the necessary licences.

There is a more hopeful feeling generally among Continental consumers that their requirements in the new season now entered upon will be filled more successfully than in the past. The view was recently expressed in the French trade that the domestic production might prove about sufficient to meet the country's requirements, provided a close supervision is exercised over the distribution of supplies to consumers in proportion to their needs; but this seems doubtful, for French makers have also to satisfy rather important demands from Algeria, where the product is extensively used for viticulture. In view of the considerable expansion in the acreage of vineyards in Algeria, there has been a widening outlet for sulphate there, to which British makers have contributed directly or indirectly through French merchants. Apparently part of the Algerian imports also comes from the United States, whose product is subject to a duty of 3fr. per quintal. The American exports have since the beginning of the war assumed more importance, as has been the case in many commodities in which British manufacturers have perforce lost a large portion of their overseas connections, whether through shortcomings in the matter of raw materials or licence facilities. The French position is now of more particular interest to British sulphate-makers, especially in view of the developments which have taken place incidental to the regulations introduced by the French Government to protect winegrowers, a matter absolutely essential in order to maintain a liberal supply

of wine for the armies in the field. In accordance with an agreement between the Minister of Agriculture and domestic sulphate-makers, the latter are delivering the whole of their output at an all-round fixed price amounting to 195fr. per bag of 100 kilos., free on trucks at makers' works, for commercially pure crystals, this arrangement applying provisionally to the whole of the domestic output until the end of the year. Under the arrangements in force with the British Government France expects that licences on this side will be secured with less difficulty than in the past year, when a considerable number of orders had to be cancelled through the curtailment of licences. The fixed price above mentioned applies only to sulphate directly needed for agricultural purposes, no purchases being allowed by merchants. It is presumed that for deliveries from the end of the year onward the fixed price will be revised for a certain period. An allowance of 2fr. is made over that price for sulphate

in powder. Similar arrangements were made as regards sulphur. It was intimated by the authorities that they had no objection to local associations or merchants usually identified with trading in sulphate of copper or sulphur making deliveries, provided that their charges did not exceed 50c. per bag extra for sulphate and 25c. for sulphur outside actual costs of freightage and delivery.

Italy is also a heavy consumer of copper sulphate, but her production, we understand, has been developed sufficiently to provide for all her requirements. As regards Spain, her manufacturers have not yet succeeded in producing sufficient for home requirements, and imports from the United Kingdom have been handicapped by the embargo. Spain, however, imported last year about 2,000 tons of copper sulphate from the United States at 20c. per lb., equal to about 94l. a ton c.i.f. Spanish ports. The business, as a matter of fact, was prior to that practically arranged through British merchants at the much lower figure of about 50l. a ton f.o.b. Liverpool, while Spain even offered to provide her own tonnage at that port in order to make sure of the goods. The deal, however, fell through owing to the impossibility of getting the necessary permits from the British authorities. Prior to the war the American exports were only slight, but they have since assumed considerable importance, increasing from 1,762 tons in 1913 to 3,306 tons in 1914, to 6,229 tons in 1915, and to 8,684 tons in 1916, while the returns for the first seven months of the current year amounted to 11,058 tons. In view of the urgent export demand, the movement of supplies from that quarter will probably keep on increasing until peace conditions are restored.

Under normal conditions, the price of sulphate represents about two-thirds of the value of metallic copper, as indicated by the tabulated prices we have given of the respective commodities. This ratio was fairly well held until November 1915, when the proportion suddenly increased to about 50 per cent. of the price of copper, owing to the growth of demand for the Continental season and the changed conditions; since that period the sulphate-market has consistently shaped a course quite independent of that

of copper. After rising a little beyond 65% in the earlier part of this year, the price reacted to a trifle under 60% over the summer, but the tendency then became strong, with sales effected lately up to about 68%, comparing with about 19%, the lowest recorded before the outbreak of war. The price is now higher than when copper stood at 153%, although the value of the latter dwindled recently to 110% a ton. It will thus be seen that sulphate values are no longer ruled by the state of the market in raw material, but chiefly by supply and demand, while there is no doubt that sulphate-makers experience increased difficulties in getting hold of their supply of metallic copper. Not only is the demand for copper sulphate becoming more urgent in one direction or another, but the output is comparatively small. In pre-war times, the annual home output was about 90,000 to 95,000 tons, with exports varying from about 80,000 tons to 90,000 tons. Home requirements then were roughly 3,000 tons per annum, whereas they now run into fully 10,000 tons, with prospects of a further increase owing to the steady expansion of cultivation for food-production. Current output is not much more than 50 per cent. of the normal, or roughly 50,000 tons per annum, so that the export surplus has been correspondingly reduced.

Until prospective home needs for the new season can be more approximately gauged, it is possible that export licences will continue more or less restricted, but makers may be accorded facilities to increase their operations to some extent if recommendations are made to that effect by the Board of Trade authorities, with whom conferences have been held lately in regard to the regulation of supplies and home-trade requirements.

The Sale of Opium.

THERE is a good deal of uncertainty as to the scope of that part of Regulation 40B of the Defence of the Realm Act which deals with the supply of opium by chemists. This is not surprising considering the constant changes that are being made in the regulation by the authorities—in this case Civil servants with apparently only an amateur's knowledge of the complicated subject of the sale of poisons. Regulation 40B deals with the supply of both cocaine and opium, but there is a great difference in the treatment of these two drugs, that portion dealing with the sale of opium playing a comparatively minor part. At a meeting of a leading Chemists' Association the other week the members confessed that they did not know the position under this regulation in regard to the sale of ung. gallæ c. opio, and on another page of this issue we report a prosecution of a chemist for the sale of opium to a customer who brought an order from a doctor. This is our excuse for referring again to a regulation which was first made in July 1916. The part of the regulation governing the sale of cocaine seems to be well known, but it is not generally understood that opium may only be sold to "authorised persons," who are

- (1) Duly qualified medical practitioners;
- (2) Registered dentists;
- (3) Registered veterinary surgeons;
- (4) Persons, firms, or bodies corporate carrying on the retail business of a chemist and druggist under and in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908;
- (5) Persons carrying on such business in Ireland under and in accordance with the provisions of the Pharmacy Act (Ireland), 1875, as amended by the Pharmacy Act (Ireland), 1875, Amendment Act, 1890;
- (6) Licentiates of the Apothecaries' Hall in Ireland (already included in (1)); or
- (7) Persons holding a general or special permit from the Secretary of State to purchase or to be in possession of the drug.

The regulation contains no provision for the supply of opium to patients on the order of medical men; it follows, therefore, that opium may only be sold to those members of the public who hold "general or special permits from the Secretary of State." Opium may not be supplied on prescription, but in this connection it is important to note the definition of "opium" given in

the regulation—"Raw opium or powdered or granulated opium." The expression does not include preparations of opium, the definition being less comprehensive than that given for "cocaine," where all preparations, salts, derivatives, and admixtures are included. Raw opium is sometimes employed by the public for a perfectly legitimate purpose, the case reported in this issue being an example, but a chemist cannot sell raw opium even on a doctor's prescription unless the person to whom it is sold is an "authorised person." It makes no difference whether the raw opium is rolled into pills. The difficulty, however, can, in our opinion, be got over by suggesting to the medical man that he should order a preparation of opium such as pil. saponis co. (containing 20 per cent. of opium) or prescribe some adjuvant with raw or granulated opium if he prefers to administer these forms of the drug. This procedure, we hold, takes the opium out of the definition given in the regulation. Extract of opium and other forms and preparations of the drug are not covered by the definition given in Regulation 40B, but, as chemists are well aware, the provisions of the Pharmacy Act apply. "Should sales by prescription of preparations into which opium enters be entered in the Opium Sales Register?" This is a difficult question to answer. If the register is designed to show how the stock of opium has been disposed of, it would seem to be necessary to make the sales balance with the purchases. On the other hand, the sales being to unauthorised persons, the entries would reveal offences under Regulation 40B. We suggest that the Home Office should regularise the position by issuing a general permit to chemists to supply "opium" where the drug is ordered by medical practitioners, and entries could then be made in the Opium Sales Register, as in the case of cocaine. The position at present is very unsatisfactory.

War Restrictions Affecting Pharmacy.

THIS SUBJECT, which is increasing in interest, was well dealt with by Mr. C. A. Hill at the meeting of the Liverpool Chemists' Association on December 5. Mr. Hill's experience in these matters is unique, and the abstract of his paper which we print on another page will be read with interest throughout the Empire. The multiplicity of the restrictions which affect the drug-trade is becoming bewildering, and we propose to publish, so soon as we can find space, a compilation dealing with the restrictions which we have had in use for some time. This, we think, will be appreciated by the many subscribers who have made inquiries during the last few weeks.

The Nitrogen Problem.

THE Munitions Inventions Department has issued a pamphlet dealing with the nitrogen problem and the work of the Nitrogen Products Committee (Stationery Office, 2d.). The last-named Committee was constituted a year ago, and although no report has been issued it is stated that one will shortly be published. The pamphlet is of considerable interest, it being stated that "the progress made, and the success attending the systematic research-work that has been undertaken foreshadow the possibility of developments of permanent value to the country." This is a very cautious statement, but is an indication that the Government has realised the importance of the manufacture of nitrogen products from the air. The European Allies are also working on the same problems in conjunction with this country, and the United States is developing nitrogen fixation on a very large scale.

BRITISH MEDICINAL RHUBARB.—A recent issue of the "Journal of the Royal Society of Arts" contained an historical article on the cultivation of medicinal British rhubarb. It may not be generally known that the drug is cultivated at the present time on the farm of Richard Usher, of Bodicote, near Banbury, great-grandson of Peter Usher, who in 1811 bought the plantation at Bodicote from Mr. William Hayward, of Banbury. This gentleman received a silver medal in 1789 and a gold medal in 1794 for his endeavours to secure the growth of rhubarb on a commercial scale.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE usual monthly meeting of the Council was held on December 5 at 16 Bloomsbury Square, London, W.C., the President (Mr. E. White) in the chair. The other Councilors present were the Vice-President (Mr. E. T. Neathcoat), the Treasurer (Mr. W. H. Gibson), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, F. J. Gibson, R. L. Gifford, T. Guthrie, A. Hagon, J. F. Harrington, F. G. Hines, A. H. Jenkin, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young. The President intimated that Mr. Deakin had written expressing regret at his inability to attend. The minutes of the previous meeting were read and confirmed. There were no questions.

ELECTIONS AND RESTORATIONS.

A number of members and student associates were elected; one person was restored to the Register of Chemists and Druggists and twenty-five persons to the Society. Mr. Frederick Faurey Shelley was registered, on production of a diploma from the Colony of Victoria, under Section 4 (b) of the Act of 1908.

CORRESPONDENCE.

A letter was read from a firm of manufacturing chemists asking the support of the Society in bringing pressure upon the Ministry of Munitions to release tinplates for the manufacture of ointment-tins for packing purposes, but it was decided that no action be taken.

The University of Bristol wrote intimating that the term of office of the Society's representative on the Court of the University has expired, and asking that the necessary steps be taken to fill the vacancy. The retiring representative, Mr. P. F. Rowsell, signified his willingness to serve again, and was re-elected.

A letter from the Newcastle-on-Tyne Pharmacists' Association, drawing attention to the position of pharmacists in the Volunteer Field Ambulance, was referred to the Law Committee, and one from the West Ham Pharmacists' Association, reaffirming a previous suggestion that the qualifying examination should be taken in stages, was referred to the School Committee.

Formal communications were received from the Privy Council, approving Examiners for 1918, and from the Conjoint Examining Board, forwarding revised regulations relating to the Preliminary Examination in General Education.

FINANCE.

The Secretary read the report of the Finance Committee. The financial statement submitted is summarised as follows:

The receipts of the General Fund since the last Committee-meeting amounted to 1,522l. 11s. 7d., made up as follows: Penalties and costs, 106l. 7s. 10d.; "Pharmaceutical Journal" and publications, 131l. 9s. 1d.; bank interest, 5l. 0s. 9d.; subscriptions, 287l. 7s.; registration-fees, 44l. 2s.; restoration-fees, 2l. 2s.; deposit, 1,000l.; School of Pharmacy, 187l.; rent, 43l. 2s. 6d.; a total of 1,378l. 11s. 2d. After deducting payments ordered at the last meeting, there remained a balance of 506l. 7s. 9d. The amount passed for payment was 932l. The other balances were: Benevolent Fund, (current account) 1,092l. 19s. 6d., (donation account) 937l. 3s. 7d.; Orphan Fund, 132l. 0s. 5d.

In moving the adoption of the report, the TREASURER remarked that the Benevolent Fund was in a very flourishing condition. After Messrs. SARGEANT, SKINNER, and ROWSELL had expressed the hope that the flow of subscriptions and donations to the Fund would not be slackened as a result of the Treasurer's optimism, the report was further considered in Committee, and eventually adopted.

BENEVOLENT FUND.

Mr. BILSON moved the adoption of this Committee's report, which recommended seven grants amounting in all to 108l. 10s. Receipt of the following amounts was intimated:

Mr. A. Goldthorpe (Plumstead), 10l. 10s.; Dorset County Pharmacists' Association, 5l. 5s.; J. Young & Sons, Leicester, 5l. 5s.; Anonymous, 5l. 5s.; Bournemouth Pharmaceutical Association, 5l. 5s. 2d.; Hull Pharmacists' Association, 2l. 12s. 6d. and (collecting-box), 7s. 6d.; East Anglian Federation of Pharmacists, 2l. 5s. 6d.; Monmouth County Pharmacists' Association, 1l. 1s.; Women Pharmacists' Association, 1l. 1s.; Mr. H. R. Lowther (Mumbles), 1l.; Bolton Pharmacists' Association, 17s. 6d.

LIBRARY COMMITTEE.

The report of this Committee dealt with the attendance at the Society's libraries. It was recommended that the Bloomsbury Square premises close from December 22

to December 27, and the Society's School from December 20 to January 9, 1918. It was decided to take steps to arrange a curriculum for the Society's examinations, and to approach the Institute of Chemistry with regard to the acceptance of the Society's Major certificate as an intermediate step to the A.I.C. qualification. It recommended that no action be taken by the Council in petitioning Parliament, together with Chambers of Commerce, for a compulsory metric system in coinage, weights and measures.

The PRESIDENT, in moving the adoption of the report, remarked that he was not charmed with the metric system, but that our coinage might well be decimalised. Full advantage must be taken by the Society of subsidised secondary education if it proved technically adequate to pharmacy students. With regard to the Institute of Chemistry, he explained that the Institute recognised only training in connection with their examinations, and would accept no certificate unless it could be shown that the candidate had gone through an adequate curriculum. It was understood that the Institute of Chemistry would recognise the Major certificate in the sense indicated if it was accompanied by a certificate of training at a recognised school such as the School of Pharmacy.

A brief and animated discussion arose on the merits of the metric system, Messrs. SARGEANT, ROWSELL, HINES, and HAGON urging its adoption, and Messrs. CAMPKIN, YOUNG, and GUTHRIE opposing change at the present juncture.

The PRESIDENT contended that it was impossible for the Committee to take action without knowing the feeling of the country, and added that there were two defects inherent in the metric system. The first was that its standard was derived from a measurement since proved to be variable; the second, that its units are arbitrary and not adaptable to the needs of the community at large. Our English standards, on the contrary, were devised with reference to these needs. When a man called for a drink he did not think in terms of c.c. ("A litre," interjected Mr. SARGEANT, amid loud laughter), and the same remark applied to most wants. Many nations have adopted the metric system, and the Committee is not unsympathetic; but it is not necessary to "run after" the change. The decimal system, however, could be more easily adopted, especially as applied to coinage.

An amendment to refer this question back to the Committee, moved by Mr. SARGEANT and seconded by Mr. ROWSELL, was lost, only three voting in its favour. The report was then adopted.

GENERAL PURPOSES COMMITTEE.

The PRESIDENT moved the adoption of this Committee's report, which stated that Mr. Skinner had asked for action to be taken in the matter of infants' food supplies, but was informed that no effective action was possible. A motion by Mr. Hines affirming the right of individual access to N.H.I. priced prescriptions in negotiating either with the Commissioners or with Pharmaceutical Committees had been negatived by seven votes to two.

The Council received in Committee a report from Mr. A. S. Campkin on a conference with the Food Production Committee of the Board of Agriculture on the retail price of sulphate of copper for next season.

The report was adopted.

EXAMINATION SUPERINTENDENTS.

Superintendents of the Society's examinations were re-elected as follows: London, Mr. E. White (deputy, Mr. H. Moon); Edinburgh, Mr. J. Nisbet (deputy, Mr. D. McEwan); Manchester, Mr. H. Kemp (deputy, Mr. C. Swind).

VERONAL TRANSFERRED.

In accordance with the statutory requirements it was formally agreed that the veronal group enumerated in Section (b) of the Order in Council of March 12, 1913, should be transferred from Part II. to Part I. of the Poisons Schedule.

This ended the public business.

GINGER POULTICES, made in the same way as mustard poultices, are recommended in preference by some medical men as free from liability to cause blistering.

LINSEED.—The production of linseed in 1917 in Italy, the Netherlands, Canada, the United States, and India, is estimated at 18,919,000 cwt., or 10.7 per cent. below last year's production.

NEW MALADY.—On passing a chemist's the other night I was amazed to see a card bearing the words, "Top Hat Cough." It took a close inspection to discover that the wording was really "Stop That Cough," the "S" and "T," printed in red, being neutralised by a red light in the window.—*Daily Sketch*.

Associations' Winter Session.

Birkenhead.—On November 15 the Birkenhead and Wirral Association of Pharmacists inaugurated their new session by a visit to the physiological laboratories of Evans Sons Lescher & Webb, Ltd., at Runcorn. A party of thirty entrained at Lime Street Station, and on arrival at Runcorn were met by Mr. Beckett and conducted to the laboratories. Dr. Annett cordially received the visitors, and without delay proceeded to conduct them through the different departments. Keen interest was evinced in the physiological assay of certain products and in the preparation of sera. On leaving the physiological laboratories a portion of the party visited the chemical department exclusively devoted to the manufacture of salvarsan, whilst the other, under the guidance of Mr. Jones, the botanical expert, viewed the *materia medica* farm of 150 acres extent. Mr. Middleton, the salvarsan chemist, took great pains to explain every detail of the intricate processes involved in the manufacture of this important product, from the heating together of the arsenic and phenol to the filling and the sealing of the tubes. It surprised more than one member, on emerging from the buildings, to discover the existence of such an extensive herb-farm, and that within a few miles of their own pharmacies. A special building for the drying of herbs, leaves, etc., was next inspected, and this completed a most interesting visit of inspection. Before returning light refreshments were served and "smokes" distributed. The President (Mr. T. Stephen Jones), in a few well-chosen words, expressed the thanks of the members to Evans Sons Lescher & Webb, Ltd., for their invitation and hospitality, and to Dr. Annett and Mr. Beckett for their services and courtesy in piloting the party and making the visit of such an educational value. Dr. Annett, who had charge of several expeditions to West Africa in connection with the Liverpool School of Tropical Medicine, showed a series of photographs taken during the expeditions by himself and his late lamented colleague, Dr. Everett Dutton (Birkenhead), to whose sterling personal qualities and self-sacrifice he paid the highest tribute.

Bournemouth. A meeting of the Bournemouth Pharmaceutical Association was held at Gervis Hall on November 27, Mr. Boyle (President) in the chair, when the new regulations for sugar and glycerin preparations for N.H.I. dispensing were read and approved. The Tariff terms for 1918 were fully explained by Mr. Bilson, and, after discussion, agreed to. The President proposed, and Mr. Hornby seconded, "That a hearty appreciation of the work of the Vice-President and the other delegates in their negotiations with the Commissioners be forwarded to Mr. Neathercoat," which was carried unanimously.

Chesterfield.—A meeting of the Chesterfield and District Pharmacists' Association was held on November 27 at the Sun Inn, Mr. H. Smith (Clay Cross) in the chair. A vote of condolence was passed with the widow of the late T. A. Sales, of Brimington. It was decided to continue on the panel for another year. Mr. S. C. Greaves read a paper entitled *The Pharmacist of the Future*, which was both interesting and amusing, and he was accorded a hearty vote of thanks. It was agreed to close on Christmas Day, Boxing Day, and New Year's Day. A proposal to close at 6 P.M. in the new year was rejected.

Dewsbury.—The monthly meeting of the Dewsbury and District Pharmacists' Association was held on December 3, Mr. Blakeley (President) in the chair. It was reported that the "B. & C. P." price-list had been generally accepted throughout the district, and the publication of a patent-medicine price-list was suggested. The President spoke of the sale of methylated spirit. He had been informed that the stocks in hand could be disposed of in the ordinary way of business, but that a man could not be regarded as a patriot if he sold it for burning purposes. It was resolved that the price-lists of all members of the Association be revised each month.

Dundee.—The Dundee and East of Scotland Pharmacists' Association has issued to its members a circular in regard to methylated-spirit licences, the sugar register, and the alterations in the Scottish price-list. Attention is also called to the necessity of care in the sale of venereal remedies, and it is intimated that local doctors have learned that the treatment of venereal diseases is still being undertaken by certain chemists, who thus expose themselves to heavy penalties. An appeal is also made for support for the Hyndford House Depot of the Scottish Branch Red Cross Society.

Folkestone.—The annual meeting of the Folkestone and District Chemists' Association was held on November 28 at Cave's Café. The Secretary's report and balance-sheet, showing a small balance in hand, were adopted, and the

election of officers resulted in the reappointment of Mr. F. G. Curtis as *President*, and Mr. Frank C. Jones as *Secretary*, while Mr. L. Giles was elected *Treasurer*. Mr. Harcombe Cuff then gave an account of the inception and working of the Parliamentary Fund, and it was decided to send a donation of 1*l.* to the Fund. Various matters of trade interest were discussed, and during the afternoon tea was served.

Hull.—The monthly meeting of the Hull and District Pharmacists' Association was held on November 27 at the Grosvenor Hotel, Mr. L. S. Selle presiding, when a vote of sympathy with the family of the late Mr. W. Uttley was passed. A Committee was appointed to arrange for a social evening in December. It was decided to continue the free dispensing of prescriptions for the dependants of sailors and soldiers. Mr. Earle initiated a discussion on the new Insurance Tariff, dealing with several proposals for alterations. Mr. H. S. Brown (Hessle) then read a short paper on *Golf*, which he recommended as a health-giving hobby; and Mr. J. Tiffany dealt in a similar manner with *Billiards*. Mr. J. R. Foster was absent, and his paper on *Allotment-work* was read by the Secretary. A vote of thanks was accorded to the contributors, and the President's idea in arranging for these papers was acclaimed as a complete success.

Irish Assistants.—At a special meeting of the Cork branch of the Irish Chemists' Association held on November 30, Mr. O'Connor presiding, the Hon. Secretary reported that the firm referred to at the last meeting (*C. & D.*; December 1, p. 45) have granted the assistants the demand for the cessation of work at 6.30 P.M. This was considered satisfactory. It was agreed to press the remaining employers to fall into line with the majority of the local chemists, so that all the assistants would be free at this hour.

Liverpool.—There was a large attendance of the wholesale and retail trade, including visitors from Birkenhead, Wallasey, Bolton, and Southport. Mr. W. H. Clubb, the Vice-President, reported that the Lancashire Federation now comprises a thousand members, and it is hoped to embrace Cheshire, Cumberland, and Westmorland in the Federation, thus forming a link between Northern Counties and the Pharmaceutical Society. Several speakers urged vigilance to safeguard pharmaceutical interests affected by the proposed National Medical Service Bill, and the President (Mr. W. P. Evans) promised to communicate with Bloomsbury Square. Mr. C. A. Hill, B.Sc., Ph.C., managing director of The British Drug Houses, Ltd., then read a paper on

GOVERNMENT CONTROL OF MATERIALS

as affecting pharmacy. In dealing with the subject he said one has to consider commodities which are of great importance to the nation's needs as munitions or foodstuffs, and as medicines. Instances of the first class are sulphuric acid, glycerin, sugar, and starch, while quinine will serve as an example of the second class. Government control means the guidance of available supplies into proper channels, so that such supplies may serve the most important national purposes. Mr. Hill then considered the group *acetone*, alcohol, ether, and acetic acid. The first of these has required a permit for its sale since the autumn of 1914. In the case of *spirit* the shortage at one time reached a sub-acute stage, but happily medical necessities were realised, but spirit is only delivered to manufacturing chemists and wholesale druggists "for definite war purposes" or "for absolutely medical purposes," these conditions being also imposed if small quantities are again sold to hospitals or chemists. The manufacture of spirituous toilet-preparations has nearly ceased owing to the recent restrictions on the sale of methylated spirit, the small amount of "free" spirit available being very high in price. There has so far been no actual famine in ether, and the control of *acetic acid* has been arranged in a way which does not seriously affect pharmacy. The shortage may shortly be less acute. In regard to metals, *lead* and *copper sulphate* were mentioned, the last-named being controlled owing to its use in agriculture. The medicinal use of *malt extract* was at once recognised, and ample supplies of malt have been allowed for the purpose of its manufacture. The use of potato starch is unrestricted, the other *starches* being only used to a limited extent in medicated dusting-powders for the treatment of wounds. *Castor oil* cannot now be obtained of "pharmaceutical" or "first pressings" quality, the Air Board requiring it for aircraft-lubricating purposes. *Sulphuric acid* is required for munition-purposes in immense quantities, and it cannot be said that the allowance to a chemist of 56 lb. per month has interfered to any appreciable extent with pharmacy. The control of *glass bottles* by the Optical and Glassware Munitions Department has been beneficial to the drug-trade, as it has ensured a supply

of ordinary trade bottles. *Potash compounds* (referred to in the *C. & D.*, December 1, p. 33) were next mentioned, and it has been definitely ascertained, said the speaker, that salts such as the bromide, iodide, and citrate are not covered by the wording of the Order. Chrome alum and all potash alums are, however, included. The potash shortage has been relieved by the enterprise of Mr. Kenneth Chance, and there is also every reason why the Alsace-Lorraine deposits—said to rival those of Stassfurt—should be restored to France. Pulv. ipecac. co. is included in the Potash Order, but liq. potassæ, having only 5 per cent. of caustic potash, is not affected. The task thrown upon wholesale houses of checking the amount of the various controlled chemicals supplied to retailers is considerable. Mr. Hill acknowledged the readiness which the Potash Control Department has shown to recognise the claims of medicine, a striking contrast being shown between the earlier dealings of the Home Office on the potash question. The important subjects of *glycerin* and *sugar* were then dealt with, and the issue of the *Codex Addendum*, with its ill-advised formulæ. There are several substitutes for cane-sugar which are employed in syrups, which give really satisfactory results than a chloroform-tragacanth mucilage. The restrictions on *quinine*, *formaldehyde*, *phenacetin*, *opium*, and *cocaine* were next mentioned, and the latest articles in short supply—*lemon-peel* and *orange-peel*. Finally, the advantage of the recognition of pharmacy by the State was considered, and the suggestion made at the British Pharmaceutical Conference repeated, that a Public Policy Committee should be formed representing all sides of the drug-trade, and empowered to deal with the Government. In proposing a vote of thanks to the lecturer, Mr. J. H. Robinson pleaded for publicity for the sake of pharmacy, in which Liverpool should lead. The Council of the Association should issue bulletins to the daily Press in order to educate the public. On the platform were two "lions" of trade seated side by side, and this union of wholesalers should serve as an example to retailers. Mr. W. H. Saunders, Dr. Symes, Messrs. Stephen Jones, Harold Wyatt, D. H. Evans, and F. J. MacKinlay endorsed appreciation of the lecture. In reply, the lecturer said he had wished to emphasise the need for Government consultation before making control regulations.

Manchester.—The annual meeting of the Federation of Lancashire Pharmaceutical Associations was held at 65 Market Street, Manchester, on November 28, Mr. F. W. Bates, J.P. (Manchester), President, in the chair. The Secretary's report and the Treasurer's balance-sheet were very satisfactory, and were adopted. Mr. J. B. Shattock (Vice-President) then gave an address on *Retailers and Price-changes*. He referred to the correspondence which has taken place in *THE CHEMIST AND DRUGGIST*, and said it was really from this that he thought it was quite time that the present illogical and unjust state of affairs was discussed for the purpose of some united action being taken by chemists to raise the retail prices of many proprietaries which at present did not yield a living profit. He was confident that they could improve these conditions if they would all take united action and force proprietors to fall in line and give at least the P.A.T.A. standard of profit. He strongly urged the Federation to take action, and with that object he moved: "That this meeting of the Federation of Lancashire Pharmaceutical Associations urge the L.A.E. and the P.A.T.A. to take up the question of the insufficient profit on many of the proprietaries not on the P.A.T.A., and suggest some concerted action on the part of pharmacists as regards these preparations." This was seconded, and, after some discussion, carried unanimously. The Associations in Cheshire, Cumberland, and Westmorland having made representations that they wished to join up with the Lancashire Federation, it was proposed by Mr. Lord Gifford, and seconded by Mr. Wm. Kirkby, that they be accepted as members. As this will entail a change in the name of the Federation the re-naming of same is to be taken into consideration. Mr. Wm. Kirkby, M.Sc., then gave an address on *The Question of the Title "Chemist."* He outlined the history of the movement and of the big meeting held in Manchester recently. He said they must make up their minds to stick to the title of chemist; they would have to fight a very powerful organisation to do so. The Institute of Chemistry were leaving no stone unturned to get permission to use the title of chemist, of which they considered they ought to have the exclusive use. The present-day chemist and druggist, they said, had the title "pharmacist," which was (to their mind) a more suitable title than "chemist." Mr. Kirkby resented that attitude, and said chemists must not surrender their title under any circumstances, and they must educate people to the same way of thinking. A discussion followed, and Mr. Kirkby was warmly thanked for bringing the subject before the Federation. In reply, he said he was glad he had brought

this matter before the meeting, as it had undoubtedly done some good, if only for the discussion which had ensued. The President then dealt with the subject of *Organisation*, and said that any scheme which did not induce chemists to join the Society was of no use. The numbers of the L.A.E. should be enlarged by two more elected members—that is, nine members of Council, two company representatives, and eight elected. The country should be divided into eight districts or Federations, the Associations in each Federation to elect among themselves one representative on the L.A.E. Every effort should be made to obtain the joining-up of every Association with its nearest Federation (geographically speaking). The Pharmaceutical Society should pay a capitation-grant of 2s. annually to each Association for every new member obtained after an appointed day. When a man started in business he should be allotted to his nearest Association. By this capitation-grant every chemist not a member would be an object of attraction to every enterprising Secretary and Treasurer, with the result that there would be a large increase of annual subscribers to the Pharmaceutical Society. The invitation from Wigan to hold the next meeting there was approved. The election of officers followed, Mr. F. W. Bates, J.P., being re-elected *President*, Mr. Arthur Peake, J.P., and Mr. J. B. Shattock *Vice-Presidents*, Mr. W. H. Clubb *Hon. Treasurer*, and Mr. C. A. Critchley *Hon. Secretary*.

North of Ireland.—The adjourned annual meeting of the North Irish Pharmacists' Association (see *C. & D.*, November 24, p. 47) was held on November 28 in Ye Olde Castle, Belfast, Mr. R. W. McKnight (Vice-President) in the chair. The deputation to the chief tuberculosis officer reported a satisfactory settlement of the points at issue. The Committee's recommendation for the formation of a Drug Club was accepted, and the Committee was directed to proceed with the scheme and report to a general meeting as soon as a concrete proposal can be made; membership is to include all sections of the drug-trade, and a club is to form a social centre so as to promote good understanding. Affiliation with the Belfast Chamber of Trade was agreed to, and the Hon. Secretary (Mr. J. C. Culbert, Connswater) was appointed as representative. Mr. Wm. Hanna was asked to draw the attention of the Pharmaceutical Council to certain matters in connection with the report of Council-meetings.

Society of Chemical Industry.—A meeting of the London Section was held at Burlington House, Piccadilly, on December 4, Dr. C. A. Keane in the chair. Professor Henry Louis, President of the Society, read a paper on *The Economics of Coal Production*. He said the cost of coal is a matter of serious concern, not only to every manufacturer, but to every citizen of the United Kingdom, because the main foundation of Britain's greatness is an abundant and cheap coal-supply. Our future depends wholly upon our ability to maintain this, and it can only be adequately discussed when the significance of the various items that go to make up the cost of coal to the consumer is known. These items are: (1) Value of coal in the seam; (2) wages; (3) materials; (4) administration; (5) profit of colliery proprietor; (6) distribution to the consumer. The proportions of these have been estimated; wages form the largest item, and this can probably only be reduced by increasing the efficiency of the coal-miners; administration may be reduced somewhat, cost of materials, royalty and profit probably admit of but little reduction; the cost of distribution offers a more promising field. It is suggested that the federation of individual collieries into large units, revival of inland navigation, elimination of waste, and the utilisation of small coal are the most likely methods of keeping down the cost of coal and of thus maintaining British industrial supremacy.

West Bromwich.—The monthly meeting of the West Bromwich Pharmacists' Association was held on November 27, Mr. Beattie (President) in the chair, when an interesting lecture on *Coal-tar Products* was given by Mr. J. C. Mann, F.C.S., general works-manager for Robinson Bros., Ltd., tar-distillers, etc., West Bromwich. The lecturer described the formation of the coal-deposits, showing specimens of the different varieties of the mineral, and then reviewed the development of coal-gas and its products, thence proceeding to the fractional distillation of coal-tar and giving many informative details regarding benzene, toluene, aniline and its dyes, saccharin, naphthalene, anthracene, and the high-explosive nitro-compounds. A problem awaiting solution is to find a use for the pitch which results from the distillation of the coal-tar, and which is now literally overflowing the ground surrounding the works. A short discussion followed, and Mr. Mann was cordially thanked for his lecture. Various matters connected with Insurance dispensing were afterwards discussed. Mr. Greenwood was elected a member of the Association.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlay prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, December 6, 3 p.m.

At this period of the year, under normal conditions, the tendency was for market values to ease generally, the desire being to liquidate freely before the year closed. There is little evidence of this now, owing to the uncertain outlook as regards obtaining fresh supplies of raw material. This accounts for the continued rise in value of goods actually on the spot. Supplies of some of the heavy chemicals are becoming still scarcer, this applying to ammonium products like ammon. chlor., sal ammoniac, arsenic, and alum, all of which are dearer. Formaldehyde is firmer, in sympathy with America. Among fine chemicals, codeine is 5s. per oz. dearer, and prices of morphine salts have been temporarily withdrawn by makers. Strychnine and salts are 6d. per oz. dearer. Acetanilide, hexamine, benzoates, and chloral hydrate are all firmer, while amidopyrin, ethyl salicylate, phenacetin, phenolphthalein, and resorcin are cheaper to buy. Drugs are quiet pending the auctions next week, the last of the year. Cassia fistula is held for higher prices. In "outside" articles glucose and starch-powder have been considerably advanced; resin and turpentine are much dearer again. Shellac is nominal in view of Government rumours as to control. Pimento and Zanzibar cloves are easier.

Higher	Firmer	Easier	Lower
Alum (makers')	Acetanilide	Amidopyrin	Phenacetin
Ammon. chlor.	Albumen	Cloves (Zan.)	Phenol-
Arsenic	Benzoates	Ethyl salicy-	phthalein
Cassia fistula	Bergamot oil	late	Resorcin
Codeine	Chloral	Pimento	
Glucose	hydrate		
Resin	Formaldehyde		
Starch-powder	Gentian		
Strychnine	Hexamine		
and salts			
Turpentine			

Cablegram.

NEW YORK, December 6.—Business in drugs is quiet. Cartagena ippecacuanha has advanced to \$2.75 and balsam tolu to 60c. per lb. Benzoates are again dearer, \$2.85 being quoted for benzoate of soda and \$3.10 for benzoic acid.

ACETANILIDE continues to gradually improve in value, 4s. per lb. being the spot price; sales have been made at slightly less during the week.

ACETIC ACID.—The market continues to remain in a very unsatisfactory condition, the Government still refusing permits to import, so that supplies for the legitimate trade requirements are precarious.

ACETIC ANHYDRIDE.—One of the Swiss makers has raised his price, but no change has been made in the American quotation.

AGAR-AGAR is selling at 2s. 8d. per lb. on the spot; no price to arrive appears to be available.

ALBUMEN.—Spot sales of primo have been made at 4s. per lb., and 4s. 1d. is now asked.

ALOES.—The arrivals at Crutched Friars warehouse include 50 boxes of Curaçao, which will probably be offered next week.

ALUM.—Makers have advanced their prices by 20s. per ton, the quotation for home trade requirements being 18l. per ton for lump and 18l. 15s. for ground. Export price is 22l.

AMMONIA PRODUCTS are in a strong position, and, with supplies getting scarcer, export permits are now being refused on a larger scale. *Ammon. chlor.* is much dearer, 66l. per ton having been paid for crystals. *Sal ammoniac* is also strong, and one of the principal makers has sold his output for the next six months.

ANTIMONY.—Leading merchants identified with the Eastern trade have now reduced their limit for spot lots of crude metal to 44l. per ton, although the quantity available is very small. It is, however, impossible to get any reliable quotation for forward shipment owing to scarcity of freight.

ARSENIC continues to advance, the quotation being 155l. per ton for best Cornish powder, when available.

ASAETIDA.—Stocks of all good grades are exhausted, and for any small shipment that might come to hand probably 20l. per cwt. or over would be paid for pure almonds.

ASPIRIN.—In view of the increased value of acetic anhydride, it would have been thought that aspirin would improve in value; on the contrary, the price keeps on sagging, this being due to the action of an influential maker.

BALSAMS.—*Peru* is unchanged at from 19s. to 19s. 3d., and *Tolu* is quoted at from 4s. to 4s. 3d. on spot.

BARBITONE of genuine B.P. quality is selling at 120s. per lb. net on spot.

BELLADONNA-LEAVES.—English are offered at 5s. 6d. per lb. BENZALDEHYDE is offered at from 21s. to 22s. per lb. net on spot.

BENZOATES are again firmer on the spot, but the recent recovery has been so rapid that buyers may well ask if it is *bona-fide*, or whether it is due to manipulation. Spot prices are from 15s. 6d. to 16s. for benzoic acid and 14s. 6d. to 15s. for benzoate of soda.

BERGAMOT OIL.—Spot sellers quote 20s. to 21s. per lb. for 38 to 39 per cent. esters.

BLEACHING-POWDER.—Contracts for next year are being made by the English makers at about 11l. per ton f.o.r.

BROMIDES.—Present low prices have encouraged buyers to lay in stocks, and possibly they may prove a good investment. Meanwhile, prices are unchanged.

CALUMBA is inquired for, but there appears to be no stock in either first-hands or dealers'.

CAMPHOR (REFINED).—Japanese 1-oz. tablets on the spot continue to sell at 4s. 3d. per lb.

CAPSICUMS.—At auction 62 bags Nyasaland sold at 62s. for good medium picked red, and at 45s. for mixed yellow and reddish.

CASSIA FISTULA.—Supplies are becoming still scarcer, and spot holders ask about 90s. per cwt.

CASSIA LIGNEA is steady, with spot sales at 80s. to 82s. 6d. for selected whole, and to arrive 75s. c.i.f. has been paid.

CASTOR OIL.—There are no further supplies of medicinal or first pressings available, so that the greatest care is requisite in husbanding stocks in the hands of retailers.

CASTORUM.—The annual auction will be held on Wednesday, December 12, when about 2,086 lb. will be offered, compared with about 3,019 lb. last year.

CHAMOMILES are quiet, with Belgian offering at 350s. on the spot.

CHILLIES.—At auction 201 bags Mombasa offered and 31 sold at 55s. to 60s. for common mixed black, and at 75s. for red slightly mixed; 50 bags Nyasaland sold at from 98s. to 99s. 6d. for good red.

CHLORAL HYDRATE is firmer, as nothing is available from the U.S.A., and very little is coming forward from the Continent; 9s. net is the quotation for crystals in bond.

CLOVE OIL.—Finest English distilled can be had at 16s. 9d. per lb.

CROVES are dull and casier, with spot sellers of Zanzibar at 1s. 9½d. per lb. for fair, and to arrive at 1s. 6½d. net c.i.f. At auction 108 bales Zanzibar were bought in at 1s. 10d. for fair.

CODEINE is 5s. per oz. higher, the lowest price for pure crystals in quantity being 30s. net.

COLCHICUM CORN is dearer at 8s. 3d. per lb. on the spot.

COPPER SULPHATE.—The prices that were recently fixed (C. & D., December 1, p. 48) for home agricultural purposes, ranging from 48l. to 52l. per ton according to delivery, beginning next month, net, free on rails, apply to quantities of not less than 1 ton. These figures seem very reasonable compared with those current for export business. Only small lots are needed at present for the home trade, but it is probable that a considerable demand will come along in the early part of the new year. Export business is still hanging fire pending the issue of fresh licences, the quotation being from 67l. 10s. to 68l. It is understood that a list of the French buyers authorised by their Government to draw supplies from this country has been prepared for the guidance of the British authorities.

CORIANDER-SEED.—At auction 80 bundles Bombay offered and 10 sold at 60s. per cwt. gross for net.

CREAM OF TARTAR continues firm at 347s. 6d. per cwt. on the spot.

CREOSOTE CARBONATE is offered at from 55s. to 57s. 6d. on the spot.

DRAGON'S-BLOOD.—The arrivals at Crutched Friars warehouse include 18 cases, which will be offered at next week's auctions.

FORMALDEHYDE.—It is extremely difficult to get offers from the United States makers, who are reluctant sellers in view of the acute position of methyl alcohol, which has advanced on several occasions of late. The spot price of 40-per-cent. volume is firmer at 135s. to 140s. per cwt.; it has, of course, to be remembered that a permit is required to buy more than 10 gals.

GALLIC ACID.—With galls selling at high prices an improvement in values is looked for.

GALLS.—Spot sales of ordinary shape Chinese have been made at 150s. per cwt. Some small arrivals of Persian have taken place, and they are selling at a high price.

GAMBOGE.—The arrivals at Crutched Friars warehouse comprise 20 cases of Siam, which will probably be offered next week.

GENTIAN is firm at 85s. to 87s. 6d. per cwt. for fair on the spot, the value of cut being about 100s.

GERANIUM OIL.—Spot prices of Bourbon vary from 21s. to 22s. 6d. per lb. net, and African 22s.

GINGER.—At auction a fair supply of Cochín and Calicut offered, but only 60 sold at 65s. for brown rough Calicut.

GLUCOSE has advanced 5s. to 7s. 6d. per cwt., the current quotation being 60s. per cwt. ex store Liverpool for American liquid, nothing being offered in London by the leading importers. No solid is offered. Owing to the uncertainty of supplies coming forward and the possibility of "rationing," consumers are covering their needs more freely.

GUAIACOL CARB. has sellers on the spot at from 125s. to 130s. net.

GUM ACACIA is firm, with fair Kordofan sorts offering at 87s. 6d. on the spot.

HEXAMINE has been in fair demand, and 5s. per lb. now appears to be the lowest spot value; some parcels have changed hands at a lower figure.

HONEY remains a firm market, and the present high prices, in spite of excessive freights, are likely to keep attracting supplies to the London market. The auction next week will be the last of the year.

IPECACUANHA is quiet, with Matto Grosso offering at 12s. and Cartagena at 11s. per lb. The arrivals in Crutched Friars warehouse since last sale include 80 bales of Matto Grosso.

LEMON OIL is steady, with finest quality offering on the spot at from 4s. 3d. to 4s. 4d. per lb. New crop for January shipment is quoted at 3s. 11d. to 4s. c.i.f.

MENTHOL remains flat, with sellers of Kobayashi-Suzuki at from 13s. 4½d. to 13s. 6d. per lb. on the spot.

METHYL SALICYLATE is offered at from 4s. 3d. to 4s. 6d. net on spot, as to quantity.

MORPHINE.—Makers appear to have withdrawn their prices temporarily for morphine salts, and are not anxious to sell. The quotation of 13s. 6d. for hydrochloride had been current at least from January 1915.

MYRRH.—The arrivals at Crutched Friars warehouse include 18 bales.

OLIVE OIL.—The market remains extremely bare, and no relief can be expected at present from the chronic scarcity. The value of French sublimed is about 22s. 6d. per gal. Odd lots of Continental oil might possibly be picked up at about 220s. per cwt., or more than double the price current at ports of shipment. An Order has been issued by the Army Council prohibiting the use of olive oil for the production of tops or yarn after December 15 without a licence.

OPIMUM remains firm, and a fair quantity of both Persian and Indian has come to hand, much of the latter having been sold to arrive. The price of 10-per-cent. Persian is 62s. 6d. per lb. Prices of Indian, which is under Government control, are decidedly firmer, and it is anticipated that considerably higher rates will be realised shortly.

ORRIS.—About 200 packages have arrived this week from Italy, and they come to a depleted market; spot values are from 98s. to 100s. per cwt. for Florentine.

PARALDEHYDE is steady at 15s. net on the spot.

PEPPER is quiet, with sellers of fair black Singapore at 1s. 3d., Tellicherry at 1s. 3½d., and Alleppy 1s. 3½d., all spot. White pepper is also quiet at 1s. 8½d. for fair Muntok.

PHENACETIN.—The low prices recently reported from America for forward delivery now apply to spot delivery, and the market has been rather disturbed in consequence,

with sellers at about 40s. net. The price has now reached a point which does not appear to admit of any further substantial decline, and a revival in demand may lead to an improvement later.

PHENAZONE still commands 55s. per lb. net for limited quantities on the spot.

PHENOLPHTHALEIN is cheaper at about 50s. per lb. on the spot; demand is quite small.

PIMENTO is easier, with spot sellers of fair at 4d. per lb.

QUININE.—The agents of one of the makers has received notification of an advance in sulphate to 3s. per oz., tins extra, with war-risk to buyers' account. It may be expected that when makers have further supplies available this price will become operative. Meanwhile, makers continue handicapped by difficulties of transport and lack of material. The spot (London) price is 3s. 3d. per oz. from second-hands. The fact that exports are prohibited to all destinations except under licence tends to keep prices down.

RESORCIN is lower at from 52s. 6d. to 55s. per lb. net on spot.

SACCHARIN of 550 strength has sellers at from 330s. to 350s. per lb. on the spot, according to seller, and for forward delivery sales have been made at lower prices.

SAFROL.—Spot value is about 2s. 4d. to 2s. 6d. per lb.

SALICYLATES.—The principal consuming season is now over, and until the makers are in a position to tempt buyers to stock quantities the demand is likely to be quiet over the remainder of the year. The position for forward delivery is worth watching, as prices are moderately low, and there is room for improvement.

SARSAPARILLA.—The arrivals in the Crutched Friars drug-warehouse comprise 27 bales of red and yellow native, 23 bales Lima Jamaica, and 5 serons Honduras, part of which will be offered next week.

SASSAFRAS OIL.—True American is worth from 5s. 1d. to 5s. 2d. per lb. net.

SHELLAC has been quiet, but values are again higher, usual standard TN Orango quality closing at 347s. 6d. to 350s. per cwt., fine orange 400s., and AC Garnet 330s.

STARCH-POWDER has advanced to 52s. 6d. per cwt. ex store Liverpool, nothing being offered in London by first-hands.

STRYCHNINE.—The makers have advanced their prices by 6d. per oz., and now quote crystals at 4s. 6d., and sulphate at 4s. 3d.; other salts are arsenate, 4s. 5½d.; bisulphate, 4s. 1d.; hydrochloride, 4s. 4d.; hypophosphite, 6s. 5d.; nitrate, 4s. 3d.; and phosphate, 4s. 10d.—all net.

TERPENEOL.—Spot value is 2s. 9d. to 3s. per lb., as to quantity.

TURPENTINE.—The market this week again has got pretty well out of hand, as indicated by the sharp rise recorded the last few days, to well upward of 115s. per ton for American. People who made forward sales in anticipation of some reaction in the neighbourhood of 100l. find themselves rather uncomfortably situated. As we already stated recently, strong speculative forces are at work, the chief incentive for this being the increasing difficulty in securing freight, apart from the dangerous state of navigation. It is probable that the available stocks will go on shrinking, although the home consumption is comparatively small. The outlook for consumers is certainly very serious, and there is not much chance of relief. The quotations for forward deliveries have kept pace fully with those for spot, which is indicative of the excited temper of the market. The same difficulties affect resin, where values have also risen sharply to 54s. for G. and 57s. for W.W.

VANILLIN is firm at 62s. 6d. per lb. net on spot.

WINTERGREEN OIL.—Genuine sweet oil of birch is offered at 12s. 6d. to 12s. 9d. per lb. on the spot.

French Pomades.

A Paris correspondent informs us that there will be extreme difficulty in getting supplies of suet or lard for the manufacture of pomades for the next campaign. For lack of the best and most suitable kinds of Italian and Serbian suets, American lard had to be tried, costing 590fr. per 100 kilos.—a very prohibitive price. This is sold as pure pig lard, without guarantee of being neutral. Our correspondent asks what is to be done for the preparation of fats to manufacture the pomades for 1918? The use of cooked pig lard (*saindoux de cuisson*) will be necessary, but the resulting product will compare badly with that made from neutral lard. Ox fat (*en branches*) is already quoted at 450fr. per 100 kilos. Concentrated pomades will probably reach 23fr. to 24fr. per kilo. during the coming season.

FRENCH ESSENTIAL-OIL MARKET.—No noticeable change in the prices has taken place since last week. *Bois de rose femelle* (Cayenne) has risen up to 47fr. to 48fr. per kilo.

GERANIUM OIL (ALGERIAN).—The price in our issue of November 24 should have read 62.50fr., not 52.50fr. as printed.

per dozen), and will assume that this or any other articles of equal value are dealt in to the sum of 1,000*l.* per annum. The dealer would have to buy 1,111 dozens and sell singly 13,332 packets to make 153*l.* gross, or 53*l.* net, on Mr. Crewdson's 10 per cent. basis, which is ridiculous. There are worse than this; if we come to the 1*s.* article (costing 10*d.*) we have to sell 20,000 packets to take 1,000*l.*, with 62*l.* net for the owner of the business, and so on down the scale till you get to labour for nothing. Patent medicines are not merchandise sold by the cartload because they are cheap, but articles put up for sale at double their commercial value, and in order to create a forced demand the makers willingly pay pounds per inch for newspaper space and then allow the retailer a paltry profit or commission for marketing the goods. The makers are not so much to blame as the servitors who set such a small value on their own services. No reasonable objection can be made against Mr. Saunders' proposal of one price, and that face-value. This would save endless time, trouble, and expense to the vendors. If this important subject appeals to one chemist in every town, let him at once put my simple question before his local Association, and let their opinion be expressed through the *C. & D.* There is no better medium for publicity.

Yours faithfully,

J. J. JACKSON

(Chave & Jackson, Ltd.).

Hereford.

SIR,—I am writing you as one who has been "through the mill" in this matter. I started life in a small village business, and since, as the proprietor of Harrison's pomade, Harrison's rat-poison, and other well-known proprietaries, have progressed slightly. Having had experience both as a retailer (although I have been out of the retail for the past nine years) and as a manufacturer, I unhesitatingly say that no proprietary need be placed on the market under a profit of 50 per cent. on outlay—i.e., 33½ per cent. on the retail price received. I have anything up to a dozen good proprietaries on the market on these lines, and they are all on the P.A.T.A.; and I would appeal, as one who has had twenty years' retail and manufacturing experience, to the whole trade that at least 4*d.* in the 1*s.* is necessary as a protected profit to the retailer. I have on my books at present nearly ten thousand accounts, and during my twenty years' business life I have only had two complaints challenging the fairness of the conditions under which I have attempted, and I hope have realised, my business ambition. Beyond this, I may say that, on a big turnover, my bad debts have not been ¼ per cent. The manufacturer who depends upon advertising only (although advertising is an immense asset), and leaves out the retailer and what is fair to him, recognises neither his duty to his neighbour nor his advantage to himself.

Yours faithfully,

GEO. W. HARRISON.

Reading.

SIR,—Mr. Saunders' powerful letter should have the earnest attention of those concerned. We have to-day proprietaries advertised at 1*s.* 3*d.*, 1*s.* 9*d.*, and 2*s.* 9*d.* fixed at 1*s.* 2*d.*, 1*s.* 8*d.*, and 2*s.* 8*d.*. Presumably there is some reason at the back of this policy. Is it that, having weighed the value of a given article to a fraction, it is considered after all to be actually worth a penny or two less than the advertised price? Or is it that the retailer's profit would otherwise be unduly large? Or is it thought that 1*s.* 2*d.* will make a sale where 1*s.* 3*d.* would not? Or perhaps the chemist himself prefers to charge his customer 2*s.* 3*d.*, 2*s.* 4½*d.*, or 2*s.* 6*d.* rather than face-value, 2*s.* 9*d.* My experience is that the sale is practically made when the advertisement is read or the recommendation made, and when obviously the chemist's price against the advertised price is not in view. I make this serious proposition to manufacturers—that anything less than face-value is against them. The truth is, that manufacturers must in pursuing their advertising methods realise that a penny more or less to the customer is negligible. Personally, I should like to see patent medicines standardised at 9*d.*, 1*s.* 3*d.*, 3*s.*, 4*s.* 6*d.*; foods and so forth at 1*s.*, 2*s.*, 4*s.*; but, whatever the price be, protected at their face-value. These criticisms do not, I hope, convey the impression that we chemists are unmindful of these firms (and they are many and among the most successful) who protect their prices, and especially those who protect them under the P.A.T.A. To be so would be wrong; we would only have them go one better. In regard to the letters of Mr. J. J. Jackson, I am bold to disagree with him, not because I wish less than he to have 30 per cent. to 40 per cent. profit on patents, but because I am convinced that his policy would be disastrous to the trade. Such profits would discourage protection, would encourage cutting, and be a considerable temptation to grocers and co-operative stores to take up the patent-medicine business with greater zest. Girls can be engaged at 15*s.* per week who can do much of this work, and I

recommend the course to those who have not tried it. I venture to say that without the patent-medicine trade our establishment-charges would be much the same, and on the turnover considerably more. The thing that matters is the net profit made at the end of a year's trading. To me, a good profit on our professional services, a fair profit on our drugs, and, say, 20 per cent. on proprietaries is good business.

Ripley, Derby.

Yours truly,

W. S. WAIN.

SIR,—The correspondence in your columns is becoming very interesting, and I hope that we are not going to get mixed up in the matter. In my opinion Mr. Saunders' ideas are quite sound, also Mr. Jackson's, of Hereford. Mr. Hugo Wolff is also a man to be reckoned with in the commercial world, but the unfortunate part of it is that we cannot obtain cohesion and adhesion, also we must go further than that; let us attempt to instil into the mind of the average chemist that "Our calling is one which should not be placed upon the ordinary trade basis, and if patent medicines or proprietary articles are not sold at face-value, that either we, as professional men, are degrading ourselves to the deplorable position of prevaricators, or the manufacturers are." It can be taken from any point of view, but I feel certain that, finally, right and justice will prevail, and it is up to every pharmacist to think the matter calmly over and realise that his own individuality is the most valuable asset of all.

Faithfully yours,

Birkdale.

CHARLES HARE.

SIR,—I have pleasure in replying to "Carron's" courteous request. The figures quoted by me being averages, it is difficult to give an actual statement of how the expenses of any one business are made up, especially as some show great variations above and below the 412*l.* for the 1,500*l.* class. I assume that any pharmacist doing 30*l.* a week ought to have a qualified assistant, and in pre-war times these could not, as a rule, be had much under 150*l.* a year; a porter or equivalent would take up 65*l.* or so; rent, rates, taxes, heating, and lighting will absorb 100*l.*; and interest on capital, which was included, may be put down at 50*l.* These items run to 365*l.*, leaving 47*l.* to cover telephone charges, advertising, printing, postages, carriages, and those hundred-and-one indefinable items which we class as petty expenses. "Carron" says that such a business ought to be run on an expense of 250*l.* at the outside. I wonder how it is done! If it is a branch the sum named will do no more than pay the salary of the manager. If run by the owner his life would be pure slavery. I know some men who do 20*l.* a week single-handed. How? By slaving from morn till night. But this is not the sort of thing an educated pharmacist ought to get out of life. As to what it ought to cost to run a business, much depends on the situation of the pharmacy and the class of business done, and without having all the facts it is not easy to form a true judgment. If "Carron" and a few others would publish a profit-and-loss account showing approximately how they run their businesses, it would be helpful in enabling your readers to decide whether the proprietary part of the business provides a fair share of the profits, and whether the P.A.T.A. minimum scale of profit is enough. Mr. Jackson says "No," and so do others writing last week, and they are to be commended for bringing the facts well to the front. "Carron" thinks if my figures are correct half the pharmacists of the country would be in the bankruptcy court. Yes, at the present cost of living they would, but my figures were all pre-war, while "Carron's" 6*l.* a week refers specifically to "the present time." It is admitted that food and clothing are nearly 100 per cent. over pre-war prices; and as to the actual facts of the case, hardly a month passes in which your local reports do not tell of shops being closed because they do not pay and no purchasers can be found for them. These, moreover, are not all small shops, but businesses run under well-known and long-established names. Why is this, if not because of the absurd profits on the majority of proprietaries? I may add that I am in entire agreement with Messrs. Shepperson and Todd in their views as to the respective allocation of profits, and most profoundly in sympathy with Mr. Saunders in his plea for proprietaries at face value.

Yours truly,

MACJ. (107/91.)

Subscribers' Symposium.

Tomato Dye.

"In working among my tomato-plants I find my hands are stained a deep yellow colour. I wonder whether the dye which produces this colour could not be made use of?"—*Rusticus* (194/31).

Tinplates for Ointment-boxes.

The Association of Manufacturing Chemists, Ltd., 32 Kimberley House, Holborn Viaduct, London, E.C., inform us that they are taking steps to secure the release by the Minister of Munitions of tinplates for the manufacture of ointment-boxes. The Association would be glad to hear from all those interested in the matter, so that the representation may be strengthened.

Dispensing Doctors.

"The President of the General Medical Council refers to the shortage of medical students and practitioners as a serious problem," writes a subscriber (27/11). "There is a very simple way by which medical men in London, where the shortage of doctors is most acutely felt, may find much more time for visiting and consultation, and that is by leaving dispensing to the chemists. Dispensing by doctors is more practised now than it was before the passing of the National Insurance Act, and the war has made practically no difference in this regard. If it were made a condition of the contract which the panel doctor makes with the Insurance Committee that he does no dispensing even for his private patients, then he would have ample time to give his panel patients that careful attention which is so conspicuous by its absence in the case of doctors who have large panels in the low-wage earning districts."

Jay Macsims

(As he Writes them).

1. "Mere shopkeepers," said Skinner, "we shall become unless we justify our necessity as handlers of microbes."
2. But he admitted that "trade" might be the more profitable part to pursue.
3. Somebody has told him about the profits to be made!
4. Perhaps his visit to the Midlands has shown him that nobody has any demand for microbes. Anyhow, he has discovered that shops exist outside London.
5. By and by he will learn that the more a druggist drops his professional air and pretence, the more profit he can make, so long as he deals in straight business and gives the public what it wants.
6. Some druggists will deny it. I know them as the keenest men on window-shows and discounts, the most persistent advertisers, and the hardest men at a bargain.
7. Give it another five years and all this pretence about "making our own tinctures, etc." will be decently buried as a harmless fiction. High wages will finish it off.
8. Sanity seems to be returning to our trade. If Mr. Eberlin's address at Nottingham had been dated November 1912, then my neighbour and I here would not have lost 500% on discounting as we did do.
9. We've lost the cash; the professors have lost their way, and will soon be lost to our trade altogether, I hope.
10. Even Army commissions won't bring or keep "likely boys" to the counter. When that fact has been grasped we shall get proper exams. to help us to teach the boys and girls who are content to serve at the counter.

Legal Queries.

Uncertain (184/11).—See reply to "Anæsthetic," *C. & D.*, November 24, p. 52.

C. R. O'C. (185/28).—REGISTRATION OF TRADE-MARKS.—See *The Chemist and Druggist Diary*, p. 220.

R. H. (161/31).—It is legal to sell both methylated spirit and glycerin, but for the purpose of conserving the supplies you should reserve what you have for use in dispensing.

A. M. (193/40).—SALE OF OPIUM PREPARATIONS.—The definition of opium given in the Cocaine and Opium Regulation is "raw opium or powdered or granulated opium," and does not include preparations. See p. 44.

Cambrai (195/61), having opened his present business in February 1914, has not up to now had any form served upon him to make a return for income-tax, and has not been called upon to pay income-tax. He wishes to know what is his position, and whether he ought to apply to the assessor of income-tax for the district. [We assume that "Cambrai's" income from all sources is such as to make him liable to the tax—that is, that his income for the years prior to 1915-16 was over 160%., and that for the two tax years since it was over 130%. In that case he is liable to be called upon for the tax for the present tax-year, 1917-18, and for the years 1916-17 and 1915-16. A person can always be assessed for income-tax omitted to be charged for three years after the expiration of the tax year for which he ought to have been charged. No doubt, by arrangement with the assessor, "Cambrai" could be assessed for the current year and pay any tax due for previous years by way of arrears.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. N. K. (Zeitoun) (193/22).—COTTONSEED OIL IN OLIVE OIL.—We think you will find the test given in the British Pharmacopœia the most convenient for detecting cottonseed oil in olive oil. The test is as follows: Mix 2 c.c. of the oil with 1 c.c. of amyl alcohol and 1 c.c. of a solution (1 in 100) of precipitated sulphur in carbon disulphide; place in a test-tube immersed in boiling water. The mixture should not assume a red colour within thirty minutes.

Meder (190/74).—TINCTURE OF ELECAMpane.—Tincture *Inula S. Helenii*—is made of the strength of 1 in 5 or 6 of dilute alcohol. The dose is given as from 6 drops to 1 dr., the properties being stimulant, carminative, and diaphoretic. Pereira gives the dose of the powdered root as ʒj. to ʒij.; of the decoction (prepared by boiling 3ss. of the root in Oj. of water), ʒj. to ʒij.

A. F. P. Co. (190/3).—You should employ viscose bottle-caps for sealing perfume-stoppers, seeing that paraffin-wax and sealing-wax are not found to answer the purpose.

S. H. (190/58).—HAIR-RESTORER.—A formula for the clear variety of hair-restorer was given in the *C. & D.*, July 7, p. 52. It should be noted, however, that this hair-restorer is especially liable to change under the influence of light and air, on which account the lotion should be placed in opaque, amber, or blue bottles, and before the cork is inserted a few drops of ether should be placed on the surface of the liquid.

J. S. (190/69).—GUAIACOSE AND IROCOSE are varieties of somatose, the first one medicated with calcium guaiacol sulphate and the last one with an organic iron compound. The somatose patents 1897 and 3391 of 1898 have expired, but the information given in the specification is not very exact, some ten different alleged methods being given for the preparation of somatose.

E. S. (190/32).—WATERPROOFING PAPIER MACHE.—Various methods are employed to render papier mâché waterproof, such as (a) mixing the pulp with glue and formalin, (b) coating with linseed oil, (c) coating with size and then varnishing, (d) mixing with the pulp a fairly large proportion of plaster of Paris.

A. E. O. (191/91).—(1) The dark colour of boiled linseed oil cannot be readily reduced because the oxidising agents which might be employed act on the oil rather vigorously. (2) THE SMELL OF PARAFFIN OIL is stated to be modified by shaking the oil with a mixture of potassium bichromate and sulphuric acid, or with a solution of potassium permanganate, but the most promising process for deodorising paraffin oil is as follows: Mix chlorinated lime (3 oz.) with the oil (1 gal.) in an open vessel provided with a mechanical stirrer, and then add hydrochloric acid until chlorine ceases to be given off, mixing thoroughly all the time. Then add slaked lime (3 oz.), and after stirring well allow the mixture to remain for a couple of days. Again mix well, allow to settle, and decant the clear oil.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec. 14, 1867.

Pharmacy Act Extension.

"We understand it is the intention of the Pharmaceutical Society to make strenuous efforts to obtain an extension of the Pharmacy Act during the session of 1868—indeed, that a Bill is already drafted for the purpose, which will at once be submitted for the approval of the Government. This Bill is a modification of that introduced, and sent to a Select Committee of the House of Commons, in 1865, inasmuch as it proposes restrictions on the sale of poisons, the absence of such provisions having been in part the cause of failure on that occasion. The rights of chemists not hitherto connected with the Society having been duly considered, and ample security given for their future position, the trade generally are now united in supporting the proposed legislation. In the interests of the public, as well as our own profession, we trust Parliament will no longer delay their sanction to this necessary reform."

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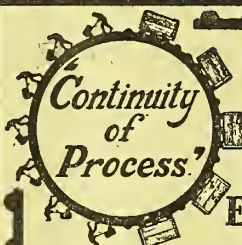
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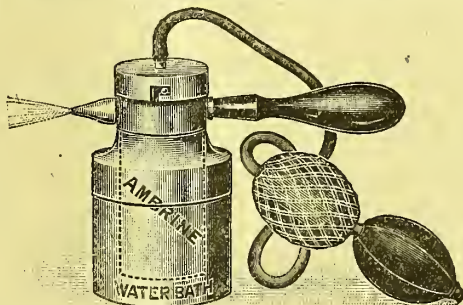
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N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Fol. Senna Tinnev., 1 cwt. @ 7½ lb.; 7 lbs. @ 9½ lb.; English Ground, 56 lbs. @ 10d. lb.; 7 lbs. @ 1½ lb.
Formaldehyde, 40%, 4 cwt. barrels @ cwt.; 7 lbs. @ 1½ lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 10/- cwt.; 1 cwt. @ 11/-.

Galla Cœrul. Pulv., 7 lbs. @ 2/1 lb.
Gamboge, English Ground, 1 lb. @ 9/6 lb.
Ginger, English Ground, 1 cwt. @ 55/- cwt.; 7 lbs. @ 11d. lb.
Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
Glycerin, Opt. D.D., 1.260 P.B., @ cwt.
" Acid. Boric, P.B., 6 lbs. @ lb.
" Acid. Carbolic, P.B., 6 lbs. @ lb.
" Acid. Tannic, P.B., 6 lbs. @ lb.
" Belladonna B.P.C., 6 lbs. @ lb.; 1 lb. @ lb.
" Glycerin Boracic, P.B., 6 lbs. @ lb.
" Pepsin. Acid, P.B., 1 lb. @ lb.
" Plumb. Subacet., P.B., 6 lbs. @ lb.
Gualacol Carb., 1 lb. @ 160/- lb.
Gualacol, pure, 1 lb. @ 139/- lb.
Gum Acacia sots, 3 cwt. @ 92/6 cwt.; 1 cwt. @ 95/- cwt.; 7 lbs. @ 1/- lb.; English Ground Powder, No. 1, 1 cwt. @ 180/- cwt.; 7 lbs. @ 1/10 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/7 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 2/- lb.; 7 lbs. @ 2 2 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.
Gum Gualac, 1 cwt. @ lb.; 7 lbs. @ 4/6 lb.
Gum Juniper, 14 lbs. @ 1/1 lb.
Gum Thus Elect., 24 cwt. @ 55/- cwt.; 28 lbs. @ 60/- cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

Heading (Frothing Ess.), 5 lbs. @ 1/9 lb.; Heliotropine, 1 lb. @ 34/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 57/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/6 lb.
Honey, Jamaica, 28 lbs. @ 1/2 lb.
Hydargyrum, P.B., 10 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.; Ammon., 28 lbs. @ 8/7 lb.; c. Creta, 28 lbs. @ 2/10 lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid. Rub., 28 lbs. @ 8/7 lb.; Perchlor., Lump, 28 lbs. @ 8/4 lb.; Subchlor. 28 lbs. @ 7/6 lb.; Sulph. c Sulph., 28 lbs. @ 7/6 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.
Hydroknone, 1 lb. @ 16/- lb.

Icthyol Ammon. chemical equivalent: Ammon. Icthosonphos., B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.
" **Inf.** Aurant. Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
" Buchu Conc., 1 to 7, 6 lbs. @ 3/1 lb.
" Calumbæ Conc., 1 to 7, 6 lbs. @ 1/5 lb.
" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/9 lb.
" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/7 lb.
" Cinchona Acid, 1 to 7, 6 lbs. @ 1/11 lb.
" Gentiana Co., 1 to 7, 6 lbs. @ 1/4 lb.
" Quassia Conc., 1 to 7, 6 lbs. @ 1/- lb.
" Rhei Conc., 1 to 7, 6 lbs. @ 1/10 lb.
" Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/11 lb.
" Senega Conc., 1 to 7, 6 lbs. @ 2/10 lb.
" Valsian Conc., 1 to 7, 6 lbs. @ 2/- lb.

Insect Powder, Opt., English Gnd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10½ lb.
Iodoform Pulv. B.P., 7 lbs. @ 20/8 lb.; 1 lb. @ 21/2 lb.
Iodum, resub. B.P., 7 lbs. @ 17/6 lb.; 1 lb. @ 18/- lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.; Russian finest, 7 lbs. @ 11/6 lb.; 1 lb. @ 12/- lb.; Ribbon or Sheet, 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.

Kamala, 7 lbs. @ lb.; sifted, per lb;
Lapis Pumicis, fine powder, 2 cwt. @ 18/- cwt.; 7 lbs. @ 2½ lb.; lump, 2 cwt. @ 24/- cwt.; 7 lbs. @ 3½ lb.
Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ lb.; 7 lbs. @ lb.
" **Lin.** Aconiti Meth., 5 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
" Bellad. Meth., 5 lbs. @ 8/8 lb.; 1 lb. @ 9/- lb.
" Camph. P.B., 9 lbs. @ 3/1 lb.
" Sapo Meth., 9 lbs. @ 1/4 lb.
" Tereb. Acet., B.P., 5 lbs. @ 2/- lb.
Linsed c. Oil, Crushed, 3 cwt. @ 44/- cwt.; 1 cwt. @ 46/- cwt.
" **Liq.** Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/6 lb.; 1 lb. @ 1/10 lb.
" Ammon. Aromat., 6 lbs. @ 11d. lb.
" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.
" Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
" Arsenil Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
" Bismuth. P.B., 6 lbs. @ 1/7 lb.
" Copaiba Buchu et Cubeb, 5 lbs. @ 3/8 lb.; 1 lb. @ 4/- lb.
" Easton, p.s. 1-3, B.P., 1 lb. @ 5/6 lb.
" Ferri Dialysatus, 6 lbs. @ 1/7 lb.
" Ferri Iod. p.s., 1-7, 1 lb. @ 8/- lb.
" Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.
" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.
" Hamamelidis, B.P., 6 lbs. @ 1/4 lb.
" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 4/4 lb.
" Iodi Fort. B.P., 5 lbs. @ 7/9 lb.
" Morphina Acet. os Hydrochlor., P.B., 6 lbs. @ 4/4 lb.
" Opil Sed., 5 lbs. @ 9/- lb.
" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.
" Pruni Virg. p.s. 1-7, 5 lbs. @ 2/10 lb.
" Rheados pro Syr., 1 to 7, 5 lbs. @ 2/9 lb.
" Rhei, p.s., 1-7, 6 lbs. @ 3/2 lb.
" Santali Co., 1 lb. @ 6/- lb.
" Senna Dulc. 6 lbs. @ 1/9 lb.
" Senna pro Syr. 1-7, 6 lbs. @ 3/5 lb.
" Strychnina Hyd. P.B., 6 lbs. @ 2/4 lb.
" Tolut. pro Syr. 1-7, 6 lbs. @ 2/2 lb.
" Trinitrial B.P., 1 lb. @ 8/3 lb.
Lithia Carb. B.P., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.
" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 7/9 lb.

Mag. Calc. Levis, 1 lb. @ 3/1 lb.
" **Mag. Calc. Pond.**, 7 lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.
" **Mag. Carb. Pond.**, 7 lbs. @ 11d. lb.
" **Mag. Carb. Levis**, 1 cwt. @ 7 lbs. @ 1/3 lb.
" **Mag. Cit. Gran.**, 28 lbs. @ lb.; 6 lbs. @ 2/1 lb.
" **Mag. Sulph.**, fine druggists', B.P., 1 cwt. @ 30/-; 28 lbs. @ 4d. lb.
" **Manna**, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 14/- lb.; 5 lbs. @ 14/8 lb.
" **Mist.** Senna Comp., B.P., 20 lbs. @ 8½ lb.; 6 lbs. @ 9½ lb.
Morphina Acet. Hydrochlor. or Sulph. Pulv. B.P., 25 oz. @ 16/- oz.; 16 oz. @ 16/6 oz.; 8 oz. @ 16/9 oz.; 1 oz. @ 17/6 oz.; Pus. Præcip. Blimeconate or Tart., 1 oz. @ 21/6 oz.
Morphina Diacetyl, 4 oz. @ 3½/- oz.; 1 oz. @ 35/6 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 2/4 lb.; 7 lbs. @ 2/8 lb.

Naphthalene, Candles, 7 lbs. @ 10½ lb.; Nux Areca, 1 cwt. @ cwt.; 7 lbs. @ 1/5 lb.; powder, English ground, @ cwt.; 7 lbs. @ 1/11 lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/3 lb.; Ol. Anethi Ang. B.P., 1 lb. @ 47/6 lb.
" **Ol.** Anisi, E.I., 66 lbs. @ 4/8 lb.; 16½ lbs. @ 4/10 lb.; 4½ lbs. @ 5/2 lb.; 1 lb. @ 5/6 lb.
" **Ol.** Aurant., 12 lbs. @ 13/6 lb.; 1 lb. @ 12/- lb.; not guaranteed absolutely pure.
" **Oil of Bays**, genuine W.I., 1 lb. @ 14/6 lb.
" **Ol.** Cajuput., B.P., 21½ oz. bots. @ 4/9 lb.
" **Ol.** Camphor. Essent., White, 40 lbs. @ 1/- lb.; Brown, 40 lbs. @ 120/- cwt.
" **Ol.** Caryoph. Ang., B.P., 9 lbs. @ 17/- lb.; 4½ lbs. @ 18/- lb.
" **Ol.** Cassia, 16 lbs. @ 6/9 lb.; 6 lbs. @ 7/- lb.
" **Ol.** Cinnamon, 1 lb. @ 37/6 lb.; 1 oz. @ 2/8 oz.
" **Ol.** Citronella, 9 lbs. @ 2/8 lb.
" **Ol.** Coco Nuts, finest White, 80 lbs. @ 100/- cwt.; 40 lbs. @ 105/- cwt.
" **Ol.** Eucalypt., P.B., 1 cwt. @ 3/2 lb.; 28 lbs. @ 3/3 lb.; 9 lbs. @ 3/4 lb.
" **Ol.** Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Wusc., 1 lb. @ 15/- lb.; 4 ozs. @ 16/6 lb.
" **Ol.** Gynocardia, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
" **Ol.** Juniperi Ligne Exot., 9 lbs. @ 9/- lb.
" **Ol.** Lavand. ab Flor., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/6 lb.
" **Ol.** Menth. Pip. English, 5 lbs. @ 70/- lb.; 1 lb. @ 72/6 lb.; Hotchkiss original bots., 21 oz. each @ 24/6 lb.; 6 bots. @ 24/- lb.; 18 bots. @ 23/6 lb.; American, 20 lbs. @ 16/6 lb.; 4½ lbs. @ 17/- lb.; 1 lb. @ 17/6 lb.; Japanese, 60 lbs. @ 3/10 lb.; 5 lbs. @ 4/6 lb.
" **Ol.** Morrhuæ, 1916, finest non-freezing, 2-gall. tins @ 20/- per gall.
" **Ol.** Myrrbane, 9 lbs. @ 3/- lb.
" **Ol.** Myristica, 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.
" **Ol.** Nucis Pallid., 2 gall. tins @ 10/6 gall.
" **Ol.** Oliva, P.B., good yellow, guaranteed pure, 45 gall. barrels @ gall.; 2 gall. tins @ 27/- gall.
" **Ol.** Origan Rub., Coml., 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.
" **Ol.** Peach Kernel (so-called), 1 cwt. @ 1/8½ lb.; 56 lbs. @ 1/9½ lb.; 9 lbs. @ 1/10½ lb.
" **Ol.** Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.
" **Ol.** Ricini Alb. Opt. Medicinal, 9 lbs. @ 1/2½ lb.
" **Ol.** Rosmarini, Coml., 28 lbs. @ 2/4 lb.; 9 lbs. @ 2/6 lb.; B.P., 9 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
" **Ol.** Santal. Flav. Ang. B.P., 5 lbs. @ 53/6 lb.; 1 lb. @ 54/6 lb.
" **Ol.** Sassafras, genuine, 28 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
" **Ol.** Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.
" **Ol.** Wintergreen, Artificial, 5 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
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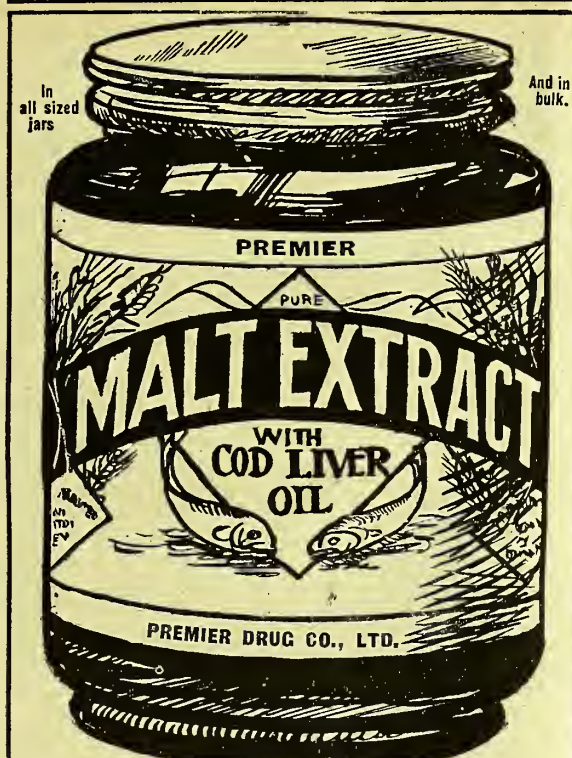
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Sold on a one-price-to-all basis. Your profits are protected against cutting—the “RONOLEKE” is on the P.A.T.A. List. We will advertise the “RONOLEKE” strongly next season in a select list of the popular weeklies. You will share in the profits created by this demand if you stock the “RONOLEKE” Guaranteed Hot Water Bottle. In case of difficulty, kindly send us the address of your Wholesale house, and we will supply you through them.

Campbell, Achnach & Co., Ltd.
 59 Wallace Street,
 S.S., Glasgow.

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

WE MAKE GLASS BOTTLES

ESTABLISHED 1880.



All Kinds, Shapes and Colours,
Plain, Screw-capped & Stoppered
FORSYTH & BATE

TRADING AS

A. RUCH & CO., Ltd.

(G. GRANT FORSYTH, Managing Director)

Offices: 28 Martin's Lane, Cannon Street, LONDON, E.C.

Phone: Central 4799. Telegrams: "Sennoek, Cannon, London."

**LARGE STOCKS AT
OUR WAREHOUSES**

Limes, Kalis, Flats (plain and
panelled), Tablets, Pomades,
Brilliantines, Colognes, Medicals,
Poisons, Essences, &c. &c.

ROBT. BAILEY & SON,

SOLE PROPRIETOR: A. BAILEY.

**Marriott Street Mills,
STOCKPORT.**

Telephone No.
STOCKPORT 694.Telegrams:
"UNDISPUTED STOCKPORT."

MANUFACTURERS OF

**SURGICAL DRESSINGS
ABSORBENT GAUZE TISSUE,
COTTON WOOL, BANDAGES.
LINT, TOW, &c.**

**PATENT FOUR-PLY GAUZE.
SANITARY TOWELS.**

**BRITISH MADE
AND
BRITISH OWNED.**

WHOLESALE ONLY. Write for Samples and Prices.

Tel. Address: "Pillischer London."

Established 1843

Telephone: 4418 Gerrard.

**J. PILLISCHER, 88 NEW BOND STREET,
LONDON, W.**

MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

**SOLE MANUFACTURER OF THE CELEBRATED
"INALTERABLE" CLINICAL THERMOMETER.**

RECENT EXHIBITIONS: 12 GOLD MEDALS—14 GRANDS PRIX.

*Sole and exclusive agents for Argentina, Uruguay and Paraguay:
M. Etchegoin, Stabile y Meoli, 255 Calle Montevideo, Buenos Aires.*

The BRADFORD WOOL EXTRACTING Co. L^{td}.
are **ACTUAL MANUFACTURERS** *of*

PHENACETIN



SALICYLATES

Telephone No. 1985

PIT LANE MILLS, BRADFORD.

Telegr. "Production."

FIRST AID OUTFITS.

Quick Sales will be experienced by the display of "Fastnet" handsomely-packed Outfits, costing:—

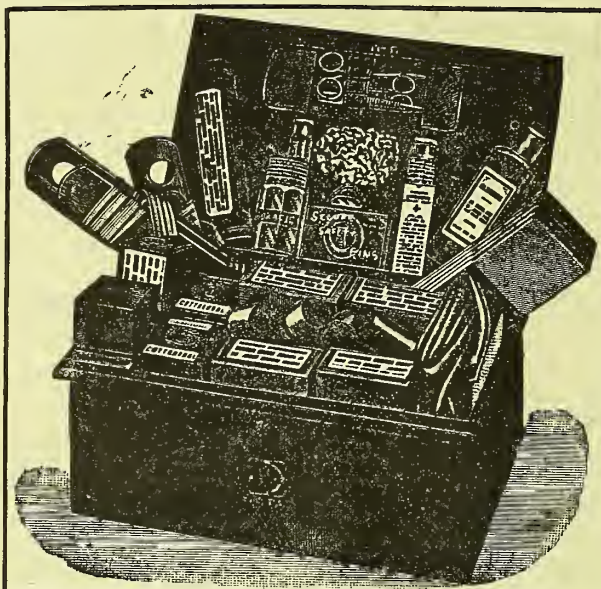
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No. 3, 6/6

No. 4, 12/-

NETT.

JOHN TIMPSON & CO.,
Limited,
104-106, Golden Lane,
LONDON, E.C.1.



No. 5, 17/6

No. 6, 22/-

No. 7, 45/-

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Telephone:
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"POROUS, LONDON."

SPECIAL OFFERS

RE-ENFORCED FINGERCOTS
9/- per gross; worth 13/6.

PLAT. IRID. HYPO. NEEDLES
Prices on application.

FEEDING - BOTTLE TEATS
120 gross at 7/6, to clear.

STEEL HYPO. NEEDLES
All sizes and shapes.

**"ALL-METAL" AND METAL
& GLASS HYPO. SYRINGES**
670 (1 cc.) dozen, to clear,
12/- per dozen (naked).

WILFRED TURNER & CO., LTD.

30 Craven St., Strand, London, W.C. 2.

Phone: 2221 Gerrard. Teleg.: "Advuloid London."

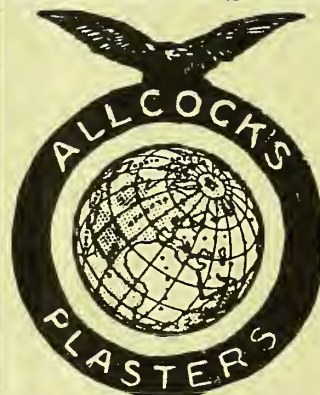
ESTABLISHED 1847.

Allcock's PLASTERS

A REMEDY OF 60 YEARS' STANDING

**Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills**

*The
Three
Reliables.*



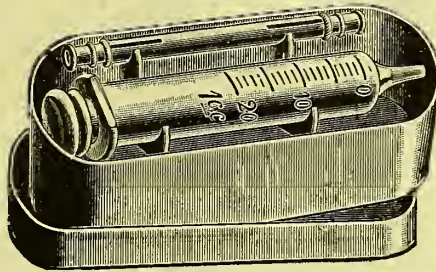
Prices and Terms
on
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**ALLCOCK - -
MANUFACTURING
COMPANY - -
22 Hamilton Sq.,
Birkenhead.**

"Sold all round the World."

SEND FOR STOCK LIST

Write us for prices of Porcelain Pomades with celluloid caps.



JULES LANG & SON,
Charlton Works, Charlton Place,
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Sole Proprietor:
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Telegrams: "Assorted, Nordo, London." Telephones: North 1344-5

TRADE MARK

**STERILE
SURGICAL
CATGUT**

All Varieties and
Styles of Packing.

WE MANUFACTURE BY ASEPTIC
PROCESS AND UNDER CLOSE
BACTERIOLOGICAL CONTROL,
RIGHT FROM THE FRESH IN-
TESTINES TO FINISHED STERILE
LIGATURE, READY FOR IMME-
DIATE USE AT OPERATING TABLE

Inquiries invited.

G.F. MERSON & Co
EDINBURGH
CONTRACTORS
TO H.M. GOVERNMENT.

Sphagnol



is a distillate of Peat, is
Antiseptic, Anti-para-
sitic, and possesses the
same healing properties
as SPHAGNUM MOSS.

SPHAGNOL OINTMENT

is medically prescribed for
the quick relief and cure of
**SEPTIC WOUNDS
TRENCH SORES
INSECT BITES
CHILBLAINS**

*Men on Active Service are
asking for Sphagnol Oint-
ment and Soaps to be
sent out.*

YOUR ORDERS RECEIVE IMMEDIATE ATTENTION.

PEAT PRODUCTS (Sphagnol), Ltd.
19 Queenhithe, Upper Thames St., LONDON, E.C. 4.

**WHOLESALE
ONLY.** MANUFACTURERS OF **Established
1901.**

Surgical Dressings,
Absorbent Lints, Bandages,
Cotton Wools, Gauzes, &c.

Samples and prices on application.

VERNON & CO., Ltd., Pewortham Mills **PRESTON.**
Also 9 Fore Street Avenue, LONDON, E.C.
Branch Works: Waterfold Mills, Heap Bridge, BURY.

TRADE
MARK.

**"ROYAL
WORCESTER"**

TRADE
MARK.

IMPROVED

LABORATORY PORCELAIN

IN STANDARD FORMS & SIZES.

THE WORCESTER ROYAL PORCELAIN
Co., Ltd., WORCESTER, ENGLAND.

ATKINSON & BARKER'S ROYAL INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON,
11 Russell Street, C.-on-M., MANCHESTER.

**DOES
NOT
CONTAIN
any
SCHEDULED
POISON.**

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabio and
Tragacanth as Imported or finely powdered.

Van Horn and Sawtell

—LONDON AND NEW YORK—

MAKERS OF

"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
"Van Horn" Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION

31-33 HIGH HOLBORN, W.C.



SHADEINE

FOR COLOURING GREY HAIR
This popular article is largely advertised
and stocked by all Wholesale Houses.

TRIAL BOTTLES 7d. size supplied on
pretty showcards.
5/- doz.; 1/2 size, 11/- doz.; 3/6 size, 33/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

JOHN E. RAWORTH

CHARTERED PATENT AGENT,

PATENTS, TRADE MARKS AND DESIGNS.

THE
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS,
73 Cheapside, E.C. WESTMINSTER, S.W.

Telephone: 759 GRIMSBY.

W. GARTHWAITE,

Mechanic to the **DENTAL** Profession,
378 CLEETHORPES ROAD, GRIMSBY.

PRICE LIST ON APPLICATION.

WEST-END PHARMACY SUPPLY

(R. Rios & Co) 231 REGENT ST., LONDON, W. 1.

Sole Agents for United Kingdom for

BLENOSAN CAPSULES(Kava-Kava and Santal
Compound).**CACHETS "WEPS"**All sizes, 2/9 per 1000, plain or
embossed. Write for Samples.

Clinical Thermometers.

Medicinal Capsules.

Fine Chemicals.

PRECIPITATED CHALK.

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens,
LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

RUBBER GOODS

(FOR ALL KINDS OF SURGICAL)

TRY: **JAMES TOMPKINS, LTD.**

The Rubber House,

386 City Road, LONDON, E.C. 1. ESTABLISHED 1877

Wrinkles Absolutely Removed

BY

IN DAINTY
DOULTON POTS

Denovo
From your Wholesaler or
The Thames Chemical Co., Ltd.,
Amberley House, Norfolk St., Strand, W.C.



CACHETS "FINOT"

(White or Coloured).

With inscriptions in any desired
tint; also Plain or Embossed.

"Beautifully made and the inscriptions give them
a distinction all their own."—G. & D.
"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines.

A. BREZET & CO.

(Proprietor: A. Brezet de Beaufort, French Origin)

145 Wool Exchange, COLEMAN STREET, LONDON, E.C. 1.

FINE & HEAVY CHEMICALS.

Paris—Lyons—Montpellier. Laboratory: Hayes, Middlesex.

INQUIRIES INVITED.

T.M. FROZEN T.M.

BRILLANTINE5/- Per
Doz.

Unlike any other; the
kind a man recommends to
his friend. NOTE THE PROFIT!

9d. Per
Tin

CHRISTY'S, Old Swan Lane, LONDON, E.C.

THE ENEMY GASSED IN HIS OWN DUG-OUTS.

A customer in Collingham, Yorkshire, writes:—"Your 'Rodine' has proved most effectual. The first dose, from what I can see, has gassed the enemy in his own dug-outs."

Sergt. CROCKFORD, B.E.F., writes:—"We have had simply marvellous results with 'Rodine.' It cleared the whole lot out of our dug-outs."

On P.A.T.A.

Yields nearly 100 % Profit.

HARLEY,
Manufacturing Chemist,
PERTH, Scotland.

Export Agents: TOZER, KEMSLEY
& MILLBOURN, LTD., 84 Fenchurch
Street, London, E.C.3



"FLYBANE" W.D.O.

For industrial purposes.

"VERMIJELLI LIQUID"

For manure heaps. Kills maggots before the flies come into existence.

"GARDEN WASH"

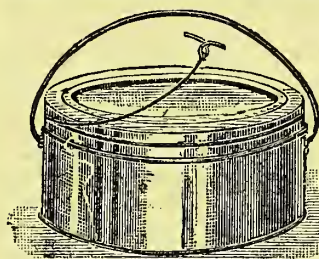
A simple wash for growing plants.

Manufactured by **S. BOWLEY & SON**
Wellington Works, Battersea Bridge, S.W. 11.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.

Manufacturers
for the
Chemical Trade.



**TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.**

*Patent Air Tight Slip-lid Tin
For Export.*

Prompt Deliveries Assured.

AWARDED THE HIGHEST PRIZE BY THE EMPEROR



The
Only Reliable
INSECT POWDER
"MUHAK".

For Sample, apply to—UEYAMAYE INSECTICIDE PRODUCING
AND MANUFACTURING CO., Tosabori 3, OSAKA, JAPAN.

KAY BROTHERS, Ltd. STOCKPORT.

Advance in prices as and from November 1, 1917.

P.A.T.A.

Kay's "LINSEED COMPOUND."		
Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price per Doz.
11½d.	11½d.	9/3
1/3	1/3	12/6
3/-	2/11	30/-
5/-	4/9	47/6
12/-	11/6	121/6

Kay's TIC PILLS		
11½d.	11½d.	9/6
1/3	1/3	12/6
"MOUNTAIN FLAX" (Linum Catharticum) PILLS.		
11½d.	11½d.	9/6
1/3	1/3	12/6
3/-	2/11	30/-

Kay's THROAT LOZENGES		
11½d.	11½d.	9/6
1/3	1/3	12/6

Less cash discount of 5 % on £5 lots.



Sound as the Pyramids

Trade-marked in this way so that their predominating qualities may "stand out" more than ever. You try them and see! And if you're not satisfied send them back and get your money.

Pyramid Corks - the kind that stand the test. Write to-day please

N.W. Mitchell & Sons, Ltd.,
The Cork Firm, London, E.14.

BRITISH MADE

**SCENT SPRINKLERS
COLLAPSIBLE TUBES**

Decorated Tin Boxes & Canisters

Manufactured by
The JOHN DALE Mfg. Coy.,
NEW SOUTHGATE, LONDON, N.

PETROLEUM JELLY

Finest qualities, Red, Yellow, and White. Guaranteed B.P.

**GUMS. WAXES. DEXTRINE.
CRUDE DRUGS.**

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1917.

It is effective.

It is attractive.

It is price-protected.

It is well-advertised.

It sells readily.

It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

**OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)**
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	... 1/-	... 7/6	} per doz. less 5 % discount
1/6	... 1/6	... 9/-	
2/6	... 2/3	... 15/-	
3/6	... 3/3	... 21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

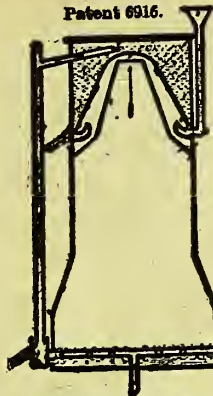
SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,

DEVON WHARF,

Emmott Street, Mile End, London, E.1.

Patent 6916.



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c
We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to	14 gallons per hour, £2 10 0	} Plus 50% net War Advance
" 5 " "	" 10 0 0	
" 9 " "	" 12 10 0	
" 15 " "	" 16 10 0	

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills:—National Physiological Laboratory, 2 in use; Imperial College of Science 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

Pamphlets & particulars forwarded on application

Estimates submitted free if required for supplying and fitting complete.

BROWN & SON, Albion Works, 9 Wedmore St., Holloway, N.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

OVER 4,000 working in

almost every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
duced, all being done at
one operation and without
loss by dust



FOR 'HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

TINFOIL PURE TIN (Free from Lead).

All Thicknesses, Sizes, Shapes, and Designs
for the Wrapping of

**DRUGS, CHEMICALS,
PLASTERS, BANDAGES,
AND SANITARY APPLIANCES,
BOTTLING FOILS.**

SHAVING SOAPS FOILS

(Designed and Perforated).

**TOILET SOAPS' FOILS,
AND FOILS FOR COMPRESSED
TABLETS OF FOODSTUFFS,
DRUGS, PILLS, LOZENGES, &c.**

CHOCOLATE (Embossed or Printed).

Also in REELS for WRAPPING MACHINES
and

LEAD & COMPOSITION FOILS
for special Chemical Wrapping.

H. ERHARDT & CO. Ltd.

**9 & 10 Bond Court, Walbrook,
LONDON, E.C.**

Established 1878.

Telephone: 283 and 384 City.

Telegrams: "ERHARDT LONDON"

CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN
STEEL, CAST IRON, BRONZE
AND SPECIAL ALLOYS

TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,
SALICYLIC ACID & SULPHONATED,
CHLORINATED & ACETYLATED COMPOUNDS.
PLANTS FOR NITRIC, SULPHURIC &
HYDROCHLORIC ACID.

LENNOX FOUNDRY COY., LTD.

GLENNVILLE GROVE, NEW CROSS,
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

'ATLAS' MODERN CHEMICAL MACHINERY



See our previous advertisements.
BRITISH MADE THROUGHOUT.
INQUIRIES FOR ALL CLASSES OF MACHINERY FOR CHEMICAL WORKS HAVE PROMPT ATTENTION.

PICARD FRÈRES' SPECIALITIES.**EAU DE COLOGNE.**

Qualité Supérieure.
2-oz. 17/6 per doz.
4 " 29/- "

PERFUMES FOR THE POCKET.

Illustration exact size of bottle.

PERFUMES FOR THE POCKET.

All Popular Odours,
8/- per doz.

COLOGNE RusSE.

A distinctive Cologne of
exquisite odour.

4 1/2-oz. 30/9 per doz.
5 " 61/6 "

COLOGNE RusSE.**PICARD FRÈRES' LATEST.**

The Shaving Stick with the creamy lather. Enclosed in
a handsome nicked case. 9/3 per doz.; 108/- per gross.

SAVON POUR LE BAIN.

Small size, about 3 1/2-oz. tablets, 3/3 per doz.
Large size, about 7-oz. tablets, 6 6 "

**Special Quotations for Quantities.****SUBJECT TO 2 1/2 PER CENT. DISCOUNT.****DEPÔT:****R. HOVENDEN & SONS, Ltd.**

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W.1. Tel. No.: Museum 2810 3 lines.
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C.1. Tel. No.: 6260 London Wall (2 lines).
Factory : 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

LOFTHOUSE & SALTMER, Ltd.Wholesale & Export Drug Merchants,
Manufacturing Chemists**HULL**

INVITE the Trade to take up the following valuable P.A.T.A.: Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.		6/6
" " " " " "	1/6		13/-
" " " " " bottles in cartons	1/6		13/-

***Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.**

Owing to the great increase in the cost of raw material and containers for our Losall's Salt, we are compelled to raise the trade prices, but the retail protected prices are proportionately increased.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 1/6 13/6
especially suitable for use in Ec ema

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

**6 1/2 %
profit
to YOU**

TOZANA

HAIR FOOD

ADVERTISING CAMPAIGN

will help you to obtain this
Handsome Return without
effort on your part

TOZANA is the newest preparation
in *HAIR TONIC* for Ladies, and
TONIC FIXING CREAM for
gentlemen.

Both strengths, Ladies' and Gentle-
men's, are free from oil or grease.

Protected Retail, 1/- 2/- 3/6 & 5/-

Write to your Wholesaler for
Prices and *BONUS OFFER*.

Or direct to

TOZANA Perfumery Co., Ltd.
257 Gray's Inn Rd., London, W.C.1.

BRITISH NOW



Send for
Price List and
Trading Terms.

ODOL
Chemical Works,
BERKHAMSTED.

"YADIL" Antiseptic

(Tri-Methenal allylic carbide compound).

Complete Internal and External Antisepsis.



WE have perfected an antiseptic of unique properties, for which we have registered the name "YADIL" in the principal countries of the world.

This antiseptic is characterised by the fact that, although much more powerful than phenol, it can be taken internally without the slightest risk to the most delicate tissue and membrane, realising at last complete internal and external antisepsis.

Its other characteristics are the following :

Non-toxic, non-caustic, non-irritating. Contains no copper, mercury, arsenic, ether, alcohol, phenol, or cresol. Does not coagulate albumen. Does not modify hæmoglobin. Increases the activity of the phagocytes. Is intensely diffusive, and possesses powerful cell-proliferant properties. Does not stain nor deteriorate. Is fully miscible with water, and has strong deodorising powers. Can be used freely internally and externally in all cases of micro-organic infection.

"YADIL" is not advertised to the public, but is being made known to the medical profession as fast as possible. Remarkable successes have been obtained in hospital practice, and from hospitals the use of "YADIL" is spreading to the Medical profession. The number of prescriptions for "YADIL" is increasing rapidly, not only in London, but all over the Kingdom.

We make this announcement in order that Chemists called upon to fill prescriptions for "YADIL" may know where to obtain it. **Orders should be placed through wholesale firms.**

CONCENTRATED FORM.

Sizes	-	-	-	-	2-oz.	6-oz.	20-oz.	40-oz.
Retail Prices	-				1/6	3/-	8/9	16/-

SOLE PROPRIETORS and MANUFACTURERS:

CLEMENT & JOHNSON, 19 Sicilian Avenue, London, W.C. 1.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 8, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED the MONEY is TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus.Cannon.London." (Three words counted as two.)

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.W.—Good middle-class Family and Dispensing Business, situate in select residential district; returns between £1,600 and £1,700, with scope for development; attractive Pharmacy, and large residence with private entrance; price £500; the stock and fixtures were recently valued by us at £750; this is an opportunity seldom met with.

2.—NORTHERN SUBURB.—Good-class Business; excellent situation; returns under Manager between £1,100 and £1,200; gross profit £446 and net £300; attractive, well-fitted shop, with comfortable residence; vendor's own property; new lease; very little opposition; price £450, or simply the valuation of stock and fixtures.

3.—LONDON, N.—Middle-class Business; Retail Dispensing, and good sale for own proprietaries; gross receipts £800; *net profit* £200; price £250, less than value of stock and fixtures.

4.—HACKNEY.—Ready-money Business; held by vendor upwards of 25 years, now retiring; returns average between £1,100 and £1,200 per annum; net profit one-third; vendor's own property; new lease; price £550.

5.—BANKS OF THE THAMES.—Very old-established Business; held by vendor many years, now retiring; returns about £870; *profits above the average*; first reasonable offer will be accepted.

6.—LONDON, W. (Main Thoroughfare).—Retail and Dispensing (N.H.I.) Business in main marketing thoroughfare; returns £900 to £1,000 per annum; gross profit 50 per cent.; price £300, or prompt offer; corner shop, double-fronted; nicely fitted and well stocked.

7.—MIDDLESEX.—Retail and Dispensing Business; situate in growing neighbourhood; returns exceed £500 yearly; corner shop; situate in close proximity to railway station; price about £300.

8.—IN THE HEART OF THE COUNTRY (unopposed).—Ready-money Business; returns £50 per week under management, present rate less; rent £39; 17 years' lease; small house (7 rooms and scullery); private entrance; good garden; London within 80 miles, on main line S.W.; price about £650.

9.—BRADFORD (near).—Family Retail Dispensing and Agricultural, with own proprietaries in good demand; returns £800; net profit, after all expenses paid, £200; rent £28; including good six-roomed house, garden, warehouse, and yard; terms, valuation of stock and fixtures.

10.—HOME COUNTY (Health Resort).—Modern Pharmacy, situate in the principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

11.—SUSSEX.—Good-class Retail and Dispensing Business, situate in a beautiful district, and practically unopposed; gross receipts £850; *net profit exceeds* £250; modern-fitted Pharmacy, with capital residence and garden stocked with fruit and rose-trees; valuation terms entertained.

12.—FASHIONABLE SEASIDE TOWN (S.W. Coast).—Good-class Retail and Dispensing, with excellent sale for own proprietaries; returns average about £700; *net profit* £275; well-appointed shop and residence, situate in the centre of the town, and close to busy railway station; terms, £50 and valuation of stock and fixtures.

13.—BOURNEMOUTH.—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill, £100; stock and fixtures by valuation.

14.—KENT (Market Town).—Modern Ready-money Business, situate in pleasant district; returns about £1,000; the business admits of extension; terms, valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

- 1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required; all over £450 can remain.
- 2.—KENT (Suburb).—Good progressive Middle-class Business; no booking; returns £1,850; net profit £450; books properly kept; convenient house; handsome Pharmacy, heavily stocked; price £50 and valuation; about £1,000; strongly recommended.
- 3.—NORTH WALES COAST.—Unopposed, sound Light Retail, returning £700; net profit £250; up-to-date Pharmacy, well-fitted and stocked; price £300 or valuation.
- 4.—LEICESTERSHIRE.—Sound Cash Drug Store in small town; returns average £630; net profit £200; good house and Pharmacy, well stocked; plenty of scope in qualified hands; price £300 or valuation.
- 5.—WEST END.—High-class Dispensing business in prominent position; returns average over £2,000; net profit £620; excellent chance for two smart men; price for quick sale £950, or small goodwill and valuation.
- 6.—NORTH LONDON (Healthy Suburb).—Sound progressive Cash Business for immediate disposal through serious illness; returns £1,150; net profit fully £300; fine modern Pharmacy; excellent main road position; low rent; price £750 or offer.
- 7.—LONDON (Distant Suburb).—Good middle-class Cash Retail; chiefly Prescribing; returns £14 weekly, increasing; net profit about £300; very low rent; fully stocked; price £475 or valuation; £200 cash; balance by instalments; trial allowed.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early, as we have only a few vacant dates open during the next three months. Full particulars and terms sent on application.

MESSRS.

TOPLIS & HARDING

AUCTIONEERS (Established 1790).

BEG TO ANNOUNCE THAT THE NEXT
SALE

OF

Chemicals, Drugs, Drysaltery,

Aniline Dyes, Etc.,

WILL TAKE PLACE AT THE

London Commercial Sale Rooms, E.C.,

EARLY IN JANUARY NEXT.

Saleable Stocks of any description may be included in this sale if immediate notice be given to the Auctioneers at their

London Offices: 66 CANNON ST., E.C. 4.

Telephone No.: City 8217,

Telegrams: "Toplis, London."

MESSRS.

TOPLIS & HARDING

AUCTIONEERS (Established 1790),

Are instructed to **SELL BY AUCTION** on

FRIDAY, DECEMBER 14, 1917,

AT

The Association Minor Hall, Mount Street,
MANCHESTER,

At 12 o'clock noon precisely, a quantity of

ANILINE DYES,

Acid and Sulphur Colours, Dry Leaf Natural Indigo,

BICHROMATE OF SODA,

Natural Gum, Bark Extract, Anhydrous Lanoline,

Oil Black, Fine White Superior Farina,

1,400 DOZ. INCANDESCENT GAS MANTLES

(Both Upright and Inverted), and about

15 CWT. OF BLACK WAX.

DYE TESTS, guaranteed by the respective Vendors, can be seen, and samples of the Dyes, Chemicals, and other goods may be obtained, together with Catalogues, at the

Auctioneers' Offices: 21 Spring Gardens, Manchester.

(London Offices: 66 Cannon Street, E.C.)

BUSINESSES FOR DISPOSAL

See Notice on Front Page of this Supplement.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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LONDON, S.W.—Genuine Business for Sale in good residential locality; returns £1,900, increasing yearly; about £550 required. Apply 209/16, Office of this Paper.

CARLISLE.—For Sale as a going concern, in consequence of the death of the owner, Chemist and Sight-testing Optician's Business, along with the premises on which the same are carried on, comprising Shop, Dispensing and Sight-testing rooms, and dwelling-house attached; the business was established in the year 1846, and for the last 35 years has been successfully carried on by the late owner; a large portion of the purchase money of the premises will be allowed to remain on mortgage at 5%. Further particulars on application to J. S. Jackson, Solicitor, Carlisle.

COUNTRY Town, near Birmingham.—For immediate disposal through death, Family Retail Business, established 50 years; sale at valuation; no goodwill; rent £40; returns £1,500. Remington & Massey, Chartered Accountants, 46 Cherry Street, Birmingham.

FORK Disposal at end of year, Wholesale and Retail Chemist's Business; established twenty-six years; retiring for reasons of health; vendor is prepared to allow part of his capital to remain in the business if desired; full particulars to bona-fide inquirers. Apply Sneath, Chemist, Grimsby.

HIGH-CLASS Dispensing Business for Sale in residential neighbourhood near London (South); main thoroughfare; returns average £2,000; books kept and balance sheet audited; plenty of scope for extension; every investigation given; price £1,000. Apply "Regret" (201/1), Office of this Paper.

IN EXCHANGE.—Good-class Dispensing and Retail, London, W.; long lease; low rent; pleasant situation; roomy house; net profit £500; will exchange for country or provincial business; South, S.W., or W. counties preferred for health reasons; no objection to one smaller, less profitable, with cash compensation. "Alpha," 185 High Street, Kensington, W.

BUSINESSES WANTED.

GENUINE good-class Business in seaside resort; net profits £500. Full particulars to Hart, 42 Shaftesbury Avenue, London, W.

FOR SALE.

CERA FLAV., about 5 cwt.; 4 lb., 9s. 7d. delivered; Tabs about $\frac{1}{2}$ oz., per $\frac{1}{2}$ gross., 4s. 2d. delivered; cash with order. Levis, Chemist, Skibbereen. Sample, 2d. stamps.

OVERSTOCKED.—10 doz. Ingram's Enemas, 22s. 6d. boxed complete; sample 2s. Davies, 9 Electric Parade, Holloway, N. 7.

4 OZ. 5 gr. B.P. Phenazone Tabs., 11s.; 12 oz. Salol, 7s. 6d.; 1 lb. Pot. Permang., 15s.; 2 lb. Ferri Lactate, 4s. 6d.; 4 lb. Pot. Brom., 30s.; 2 lb. Pot. Iodid., 30s.; 2 oz. Antipyrin Sal., 10s.; 2 gall. Ol. Morhuæ Norweg., 32s.; 1 oz. Pot. Guaiaculphos., 5s. 6d.; 2 lb. Ol. Cajuput, 8s. 9d.; 21 lb. Ammon. Mur., slightly dirty, 10s.; 1 lb. Ol. Caroph. Ang., 18s.; 1 oz. Ol. Pat. choulit Opt., 6s.; 8 oz. Aspirin, 8s. 6d.; 8 oz. Iodum Resub., 9s. 6d.; 2 oz. Sodii Cocodylio, 8s. 6d.; 2 lb. Sodii Caustic Sticks, 6s.; 1½ lb. Sodii Sal., 15s.; 1 lb. Lycopodium, 6s. 3d.; 2 oz. Methyl Sulphonal, 8s.; 8 oz. Tinc. Hydrastis Conc. B.W., 17s.; 3 oz. Resorcin, 12s.; 4 oz. Naphthaline Pur., 6s.; 8 oz. Crocote Carb., 18s.; 4 oz. Hyd. Oxycyanide, 8s.; 1½ oz. Veronal, 10s. 6d. B., Chemist, 97 Borough High Street, S.E. 1

AGENCIES.

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TRAVELLER, strong personality, able introduce live 12 years' connection amongst big Stores, Chemists, etc., seeks new commissions; working Scotland January, calling regularly Yorkshire, Eastern Counties; commission, expense terms; expert account opener. "P. S." (205/2), Office of this Paper.

SALES BY AUCTION.

TO SURGICAL INSTRUMENT MAKERS, CHEMISTS, AND OTHERS.

MR. FRANK G. BOWEN will Sell by Auction at his Sale Rooms, 62a Aldersgate Street and Hare Court, London, E.C. 1, on **THURSDAY, DECEMBER 13**, at 11 o'clock precisely, the valuable stock of 20,000 yards Cyanide Gauze, 600 pairs Dressing Scissors, 400 Thermometers, 3,000 pairs India Rubber Surgeon and Household Gloves, 400 pairs Kocher's Artery Forceps, 400 Trusses, 200 Metal Stools, 2,000 gross Record-mounted Hypodermic Needles, 12 gross 1-oz. Male Glass Syringes, 12 gross 10 C.C. 2 part all glass Serum Syringes in metal cases, 40 dozen all Metal Cases for Syringes, 500 Shop Rounds, 1,000 Bottles Extract Oak Bark, 50 gross Feeding-Bottle Teats, 2,000 bottles Perfumery, Proprietary Articles and Chemist Sundries, 70 dozen Toilet Soaps, 120 dozen tins Tooth Powder, 800 bottles and tins Solid Paste, Show Jars, etc.; also Sand and Metal Bags. On view day prior, 10 till 5. Catalogues of the Auctioneer.

TO CHEMISTS AND OPTICIANS.

Y. W. & A. GREENWOOD are instructed by Messrs. Pollard & Co., Blackburn, the Trustee, to Sell by Auction, on **MONDAY and TUESDAY, DECEMBER 17 and 18**, at 1.30 p.m., the whole of the Chemicals, Drugs, and miscellaneous Stock of an old-established Druggist's Shop, with Avery's Platform Scale, two pair Dispensing Scales, Brass Shop Scales, Fancy Show Bottles, etc., Ophthalmometer, Eye-testing Case complete, Gold-filled Eye-glass Frames, large stock of Eye-glass Fittings, Diagrams, about 2,000 various Eye-glass Lens, and other goods.

Sale of Chemical stock, Monday 17th, at 1.30; Optical goods and plant, Tuesday 18th, at 1.30 and following days till stock is cleared.

Auctioneers' Office, 1 King Street, Bacup. On view morning of sale.

TO LET.

SHOP to be Let; double-fronted; splendidly situated in shopping centre of main road, and fitted as a Chemist's; occupied by Chemist for nearly 50 years; good business just closed owing to illness; fixtures at valuation; rent £50 per annum, tenant paying rates and taxes. Apply Harry Hooper & Co., Surveyors and Valuers, Estate Offices, Millwall, 14.

APPRENTICESHIPS.

YOUNG lady or youth required for a good-class Retail and Dispensing business. Terms upon application to A. Thresh, Pharmacist, Buxton, Derbyshire.

SITUATIONS OPEN.

See Notice on Front Page of this Supplement.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.


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RESULTS

OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK, DEC. 1, 1917:

NATURE OF ADVT.	REPLIES.
Manager	12
Dispenser	11
Assistant	10
Qualified	9
Locum	7



The above demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BIRMINGHAM.—Lady or gentleman Assistant; good-class Retail; no Sunday duty. Usual particulars, Francis, Chemist, Bristol Street, Birmingham.

DEVON.—Qualified Manager for old-established business, last week in December; agricultural experience desirable; furnished house and light. State salary and full particulars of experience (and if possible enclose photo), to H. S. V. Holloway, 2 Horsdon Terrace, Tiverton.

LONDON, E.—Unqualified Assistant (ineligible) for brick business; comfortable permanency for a capable man. State age, whether married, and when at liberty. "E. R." (205/372), Office of this Paper.

LONDON, S.W.—Outdoors Assistant; lady or gentleman; experienced in Counter and Dispensing; no N.H.I.; duties light. Salary and full particulars to "Alpha" (204/54), Office of this Paper.

LONDON, S.W.—Dispenser (without military liability) in first-class Dispensing business. Full particulars, 208/15, Office of this Paper.

LONDON, W.C.—Qualified man or woman; good West-End Counter and Dispensing experience; also a Junior wanted; outdoors. Apply Cofman's Pharmacy, 6 Bloomsbury Street, W.C. 1.

MANCHESTER.—Dispensing and Counter; young lady required; Hall qualification; state age, experience, and full particulars; hours 8.30 to 6.30, Saturdays 8.30 to 1, no evening or Sunday duty. Address 205/34, Office of this Paper.

MANCHESTER.—Junior Assistant wanted; Light Retail and N.H.I. work. Bates, Chemist, Brooks's Bar, Manchester.

NEAR BIRMINGHAM.—Unqualified Assistant, discharged from Army or above military age, required immediately; must be good Counterman and Dispenser; permanent and progressive post. Apply "C. S." (205/371), Office of this Paper.

SHEFFIELD.—Lady Assistant (Dispensing department); hours 9 to 7, Thursdays 1, Saturday 8.30. State age, height, experience, qualification, and salary required (photo if possible), G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

SOUTH OF ENGLAND; Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

WEST MIDLANDS.—Qualified Chemist to manage good-class Retail Branch; some Insurance Dispensing; easy hours, no Sunday or night duty; commission on profits; applicants should give particulars of experience, age, and salary required. Apply 205/29, Office of this Paper.

A N Assistant wanted, with good general knowledge; accurate Dispenser; outdoors; half-day Wednesdays. Apply Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

A SSISTANT; Surgical Instrument business; Shop Counter. Address, stating age, wages expected, and duties accustomed to, "Surgical," Lee & Nightingale, Liverpool.

A SSISTANT (unqualified); lady or gentleman; Light Retail and Dispensing business; hours 9 to 7, Saturday 8, no Sunday duty. State salary required and full particulars to Thompson, Pharmaceutical Chemist, 31 The Grove, Ealing, W. 5.

C OMPETENT and reliable Assistant in high-class Family business near town; must be quick and accurate Dispenser, and able to take charge in absence of the principal. Applicants please state age, height, wages, whether married or single, etc., with photo if possible, to 208/17, Office of this Paper.

D ISPENSER; male or female; outdoors; Minor qualification essential; good salary for experienced person; hours 8.45 to 6.30, Saturdays 1. Apply Selfridge & Co., Ltd., Oxford Street, W.

D ISPENSER (man, ineligible for military service, or woman) with Pharmaceutical qualifications required during war time at London County Asylum, Long Grove, Epsom; two guineas a week, with board and lodging, or three guineas without emoluments. Apply in writing, with particulars of qualifications and references, to Medical Superintendent at Asylum.

M ESSRS. ALLEN & LLOYD, 21 Station Road, Aldershot, require (at once), for their Fleet Branch, capable Assistant for Dispensing and Counter work; either lady or man; if latter ineligible or over military age; good-class trade. Apply, with full particulars and salary required, to above address.

Q UALIFIED man, over military age or ineligible, to act as Supervisor to a small private company; light hours and duty; suit a disabled soldier; comfortable billet for a man seeking a permanency; North-West County. Apply "B. F. X." (203/44), Office of this Paper.

R EQUIRED, lady Counter Assistant, with experience in the selling of Perfumery and Druggist Sundries in ordinary demand; smart appearance; hours of work 8.45 to 6 o'clock, 1 o'clock Saturdays. Apply, stating full particulars of past experience and salary required, to Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W. 1.

R EQUIRED (at once), an efficient Junior or smart Youth quick at weighing, wrapping, and putting up proprietary stock. W. V. Wright, 25 Broadway, Hammersmith.

T HOMPSON & CAPPER, LTD., Chemists, 51 Piccadilly, Manchester, require an unqualified Assistant for high-class business. Send usual particulars of age, experience, wage, etc., also enclose photograph.

W ANTED for Lincolnshire inland town, qualified or unqualified Senior Assistant (ineligible) for Chemist and Photographic business; salary £3 to £4, according to experience and qualification. Send full particulars, and say if any Optical experience, with references, to 196/15, Office of this Paper.

W ANTED (immediately), lady or gentleman Junior Assistant (outdoors) for Light Retail and N.H.I. Dispensing; also a part-time evening Assistant. State full particulars to Davies & Co., 344 Caledonian Road, N. 1.

W ANTED (immediately), for West of England, qualified Dispenser (Minor); ineligible; N.H.I. work. Full particulars, age, salary required, "H. F." (208/31), Office of this Paper.

W ANTED, part-time Assistant for evenings. Apply F. E. Barlow, Pharmaceutical Chemist, Longborough Junction, S.W.

W ANTED, qualified Manager for Branch in good-class neighbourhood; Manchester district; ineligible; good house accommodation if required; state particulars, age, salary, etc. Also competent, unqualified Assistant. Apply 209/17, Office of this Paper.

WHOLESALE.

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L OONDON.—Wanted, qualified Pharmacist, male or female, of good education, with thorough knowledge of Drugs, for Government office; men eligible for military service need not apply. Give particulars of previous experience, age, and salary required. Box A.M.D., Willing's, 125 Strand, W.C. 2.

L OONDON Wholesale House requires Assistants for "Wet" and "Dry" Counters; also Laboratory Assistants; good wages to men with reasonable experience. Apply by letter, stating age, exemption, previous engagements, and wages required, to "Galenicals" (204/250), Office of this Paper.

Y OUKSHIRE (West Riding).—Good opening for smart, energetic, unqualified Assistant; must be a first-class Counterman and Dispenser; permanent and progressive post. "W. R." (205/370), Office of this Paper.

A LADY (or gentleman) required as Chief Assistant in a City Analytical Laboratory, to be responsible for Food and Drug and General Analysis. Apply 205/16, Office of this Paper.

A VACANCY occurs with the Society of Apothecaries for a Chemist (lady or gentleman) to undertake Pharmaceutical and General Analytical work. Full particulars to the Manager, Apothecaries Hall, Water Lane, E.C. 4.

C APABLE man, experienced in the manufacture of all kinds of Surgical Plasters, India Rubber, and Lead Base. Apply 200/14, Office of this Paper.

C LERK wanted, with general office experience and typing. Apply by letter, stating age, salary, and experience, to J. M. B., c/o Sangars, 42a Hampstead Road, N.W. 1.

C OMPETENT Wet Foreman or Forewoman to take charge of a small female staff in City Wholesale Druggists. Apply, stating full particulars of previous experience and wages expected, to 208/16, Office of this Paper.

C OUNTER HAND in London Wholesale Drug house, for Light Drugs and Wets; good working conditions, and every encouragement to willing man. Reply in confidence, with full particulars as to salary, military category, etc., to 209/260, Office of this Paper.

E XPERIENCED Forewoman wanted for Chemist Sundries and Perfumery Packing. State age, salary, and experience in writing to J. M. B., c/o Sangars, 42a Hampstead Road, N.W. 1.

E XPERIENCED man wanted for Packing and Despatching heavy and fine Chemicals; used to keeping Stocks preferred, but not essential; ineligible for military duties; Eastern district of London; good wages and permanency. Apply 144/62, Office of this Paper.

E XPORT Wholesale Druggists, London, require a Junior Clerk with experience in Bond and Dispatch work, for the Warehouse Dispatch Department. Apply by letter, stating age, previous experience, and salary required, to "Export" (204/25), Office of this Paper.

I NVOICE Clerk (male or female) wanted by Wholesale firm; good writer and quick at figures; state experience and wages. Apply 208/4, Office of this Paper.

L ADY Assistant (unqualified) for keeping cost book of large Manufacturing and Retail house in West-End; must have knowledge of Drugs and Sundries; permanent and progressive position. Apply "A. B." (208/28), Office of this Paper.

M ANUFACTURING Chemical Foreman, with experience in crystallising and purifying, required by a large Midland firm; must be a careful, accurate, and resourceful worker; able to manage men; wages 60s. per week, with prospects. Send full particulars to Box B. 458, Smiths' Agency, Ltd., 100 Fleet Street, E.C. 4.

MARKET Clerk, well acquainted with the Chemical trade, required for London. Full particulars to "X," c/o Pool's, 180 Fleet Street, E.C. 4.

PILL Makers and Coaters wanted at once. Apply, stating wages, to Wilkows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, London, E.C.

PROFITABLE side-line for Travellers already calling on Chemists. Write at once to "D. T. L.," c/o Streets, 30 Cornhill, E.C. 3.

R. SUMNER & CO., LTD., Wholesale Druggists, Liverpool, require a Senior Clerk, who has had good experience in a Drug House; one conversant with cost prices and able to check extensions, and capable of supervising the technical work of the office; applicants must be ineligible or over military age, and should fully state with what firms they have obtained their experience and what salary they desire.

WANTED, in Manufactory of Proprietary Drugs, etc., a Porter, ineligible, having some knowledge of the business. Apply Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C. 4.

WANTED, qualified Chemist, with experience of manufacturing Toilet and Medicinal Preparations for Wholesale house. State fully experience, age, and salary, 204/21, Office of this Paper.

WANTED, man for Despatch Department in London Wholesale house; experienced in checking and handling of orders, and with some general knowledge of the Wholesale trade. State whether eligible for Army, also age, salary, etc., to 209/26, Office of this Paper.

WHOLESALE.—Smart man, not afraid of work, required to take charge of important department of a firm at their Midland depot, Birmingham district; must have good knowledge of the Drug trade (qualification not necessary); applicants must be over military age or ineligible. "Midland" (205/37), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

BURMA.—Assistant; qualified; ineligible; about 25; salary 300 rupees per month, 325-350; three years' agreement; passage paid out and home. Apply 208/8, Office of this Paper.

COLOMBO.—Assistant required, free of military service; smart man wanted; salary starting at 300 rupees per month, 325. and 350 Ls., with commission for night duty averaging 50 Rs. per month; an unqualified man would suit if a good salesman. Apply "G. K." (199/66), Office of this Paper.

LABORATORY.—Working Foreman required for South Africa; over military age; must be thoroughly experienced in the general work of a Steam Laboratory; progressive salary; passage paid out; good prospects. Apply, by letter only, Lennon, 14 Lafone Street, London, S.E. 1.

LARGE firm manufacturing Surgical Dressings, Druggists' Sundries, Perfumes, and Packed Chemists' Goods, are desirous of appointing Agents and Representatives in British Colonies and foreign countries where unrepresented. Apply "Expansion" (186/36), Office of this Paper.

SITUATIONS WANTED.

See Notice on Front Page of this Supplement.

1s. for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

A RELIABLE, qualified man requires relief work in West-End, alternate Thursdays and Sundays; wide experience; please state hours and terms. Apply 203/28, Office of this Paper.

A RESPONSIBLE position required shortly by experienced and energetic Chemist; excellent references; age 35; C2. Send fullest particulars, 207/31, Office of this Paper.

ADVERTISER seeks post within easy distance of Woking (Surrey); thoroughly competent (unqualified); tactful Salesman, quick and accurate Dispenser; first-class West-End experience; well up in Photography; entirely free from military service; kindly state best salary offered and hours of business. Apply "G." (205/13), Office of this Paper.

ADVERTISER; 31; experienced Salesman; free Tuesday and Thursday afternoons and evenings; abstainer; West-End preferred. A. Scott, 204 Ebury Street, S.W.

APOTHECARIES' Hall Dispenser.—Young lady, 19, speaking French, seeks post; Hospital or Institution preferred. Dispenser, 11 Cambridge Road, Hastings.

AS Dispenser to Surgeon or Manager of Drug Stores; elderly man; experienced; married. Apply Dispenser, 72 Woodstock Road, Walthamstow.

AS Manager or other responsible position; qualified; 20 years' experience; state salary. Apply 208/2, Office of this Paper.

AS Improver or Junior Assistant; lady, age 26, studying; experience Counter, Accounts, and Dispensing (N.H.I.). Apply 208/6, Office of this Paper.

ASSISTANT or Locum; ineligible. Resh. 2 Gloucester Cottages, Clarence Road, Fleet, Hampshire.

ASSISTANT; unqualified; ineligible; 10 years' experience; part or whole time, after Christmas. Apply 205/38, Office of this Paper.

ASSISTANT; capable of management; all-round experience; Extractor; country preferred; age 46. Apply 205/24, Office of this Paper.

ASSISTANT, unqualified, ineligible, 19, requires post; Cardiff or East Coast. L., 128 Stretford Road, Manchester.

ASSISTANT, unqualified, over military age, desires berth. Ream, 30 Richmond Road, Mountain Ash.

COUNTERMAN; 30; experienced; disengaged Tuesday, Wednesday, and Saturday afternoons and evenings; West-End. Alexander, 83 Portsdown Road, W. 9.

DISPENSER (lady), experienced, desires post with Chemist or Doctor; good references; disengaged. Apply 204/38, Office of this Paper.

DISPENSER (woman), some experience, desires part-time post, temporary or permanent, within 10-12 mile radius of Golders Green. H. R., 10 Corringway, Golders Green.

DISPENSER; Bookkeeper; experienced; over military age. "Theta," 28 Park Grove, West Ham.

DISPENSER, Locum or permanent, disengaged; experienced; ineligible. C. H. Scott, 19 Rockmount Road, S.E. 19.

DISPENSER (lady), experienced, desires morning post. Apply 186/1, Office of this Paper.

ELDERLY Locum; experienced Counterman, etc.; references; abstainer; disengaged. "Unregistered," 19 Chapel Street, Unbridge.

ELDERLY, qualified, experienced Pharmacist requires light work. C. M., 2 Gransmoor Avenue, Higher Openshaw, Manchester.

HOSPITAL Dispenser; Locum; qualified. Irving, 66 Rowfant Road, Balham, S.W. 17.

LADY desires post as Dispenser; Hall qualification; between Kingston and Richmond preferred. Apply 202/34, Office of this Paper.

LADY Dispenser (Hall qualification), experienced, desires post; can drive car and do running repairs. Apply 207/23, Office of this Paper.

LADY, studying for certificate, desires Dispensing post; Assistant seven years. Apply 205/28, Office of this Paper.

LADY Dispenser (Hall) desires post, in or near London. Hospital or Doctor preferred. Buttrick, Fernlea, Ridgeway, Enfield.

LADY Dispenser-Bookkeeper disengaged afternoons; Hall qualification; experienced. Apply 7 Carleton Road, N. 7.

LADY Dispenser, Pharmaceutical qualification, seeks light post; Doctor or Institution; country within easy reach of London or London suburb preferred; eight years' experience (2½ in Institution). Hanna, Downs Saratorium, Sutton, Surrey.

LOCUM or permanent; lady Dispenser (Hall); experienced; good references; Institution or Doctor; London or suburbs; S.W. preferred. Apply 209/23, Office of this Paper.

MANAGER; temporary or permanent; no N.H.I.; Major; 6 feet; 50; disengaged to-day. Apply 202/35, Office of this Paper.

MANAGER or Assistant, qualified, inehgible, disengaged. Spes, 5 Lansdown Terrace, Summertown, Oxford.

MANAGER or Assistant (unqualified) in good-class business; experienced Counterman, Dispenser, and Prescriber; disengaged; married, no family, tall, middle-aged Chemist, 122 Coventry Road, Birmingham.

MANAGER; qualified; permanency; ineligible; married; active and experienced; outdoors; disengaged. "Chemist," 17 Gladstone Park Gardens, Cricklewood, N.W. 2.

MANAGER or otherwise; above age limit; qualified; real worker. State salary (week's notice, town or country), "Statim" (209/13), Office of this Paper.

MANAGER or Assistant; qualified; 41; married; good all-round experience; energetic; disengaged. Davies, 47 High Street, Tunbridge Wells.

PART-TIME; qualified; 44. Pharmacist, 9 Claverton Street, S.W.

PERMANENCY; Locum or evenings; 50; unqualified; disengaged. Rhei, Upper Kensington Lane, S.E.

PHARMACIST, 29, Army discharge certificate, experienced London, West-End, City, Suburban, Italian Riviera, South Coast, etc., seeks permanency, Manager or Senior; reasonable hours. Trump, 12 Naunton Park Road, Cheltenham.

PRINTING-IN Name and Address on Speciality Labels, Envelopes, etc.; home work wanted by discharged man. Turner, 23 Rosebery Avenue, E.C.

QUALIFIED; ineligible; 35; part-time or easy hours; within easy distance of London. Taylor, 172 Station Road, West-cliff-on-Sea.

QUALIFIED Manager, married, 35, disengaged shortly, first-class experience, desires permanency in North-West counties; capable and reliable. "Arturo" (207/20), Office of this Paper.

QUALIFIED (24), discharged now passed C3, single, abstainer, disengaged early January, seeks post in London; short hours. Sumption, Blackwood, Mon.

QUALIFIED; ineligible; 38; Branch Manager; outdoors; or Dispenser in Stores. Pharmacist, 34 Headland Park, Plymouth.

QUALIFIED; elderly; single; experienced; permanency; moderate salary (London). Apply 209/24, Office of this Paper.

RELIEF; N.H.I. Dispensing, etc.; afternoons, evenings; competent; unqualified; 50. Also young Lady; 17; Packer-Learner. "R.", 408 Kingston Road, Norbiton, Kingston, Surrey.

UNQUALIFIED; 23; Grade III.; eight years' experience Counter, Dispensing, and Photography; state salary and hours. Apply 209/21, Office of this Paper.

WOMAN Pharmacist desires appointment; Retail, Institution, and N.H.I. experience; recently returned with Russian relief unit. "F.", 32a Craven Park, Harlesden.

YOUNG lady (age 17), sister of a Pharmacist killed in action, desires apprenticeship to a Pharmacist, with a view to qualification; through Preliminary; comfortable home. E. Evans, Llys Idris, Llanrug, near Carnarvon.

YOUNG man, 29, single, C3, 10 years' experience as Drug Store Manager and Doctor's Dispenser, requires berth early in January; part or whole time in City with School. Apply 205/380, Office of this Paper.

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ADVERTISER requires post in Wholesale Drug House; well up in general office routine, also import and export business; excellent knowledge for buying all descriptions of Drugs and Herbs at home and abroad; over 20 years with London firm; ineligible; highest references. Apply 208/27, Office of this Paper.

HEAVY Chemicals, London.—Advertiser desires to represent or become London Agent for a first-class Chemical Manufacturing firm; connection amongst Merchants and Brokers; own office; sound business record. Write "B." (205/27), Office of this Paper.

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LADY desires post in Wholesale Chemist Warehouse as Dispatch Clerk; well experienced. Apply 203/34, Office of this Paper.

MISCELLANEOUS.

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WANTED, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.

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Santal Oil, 10 m. ...	98/-	...	31/- doz.
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200's	44/-	doz.	
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